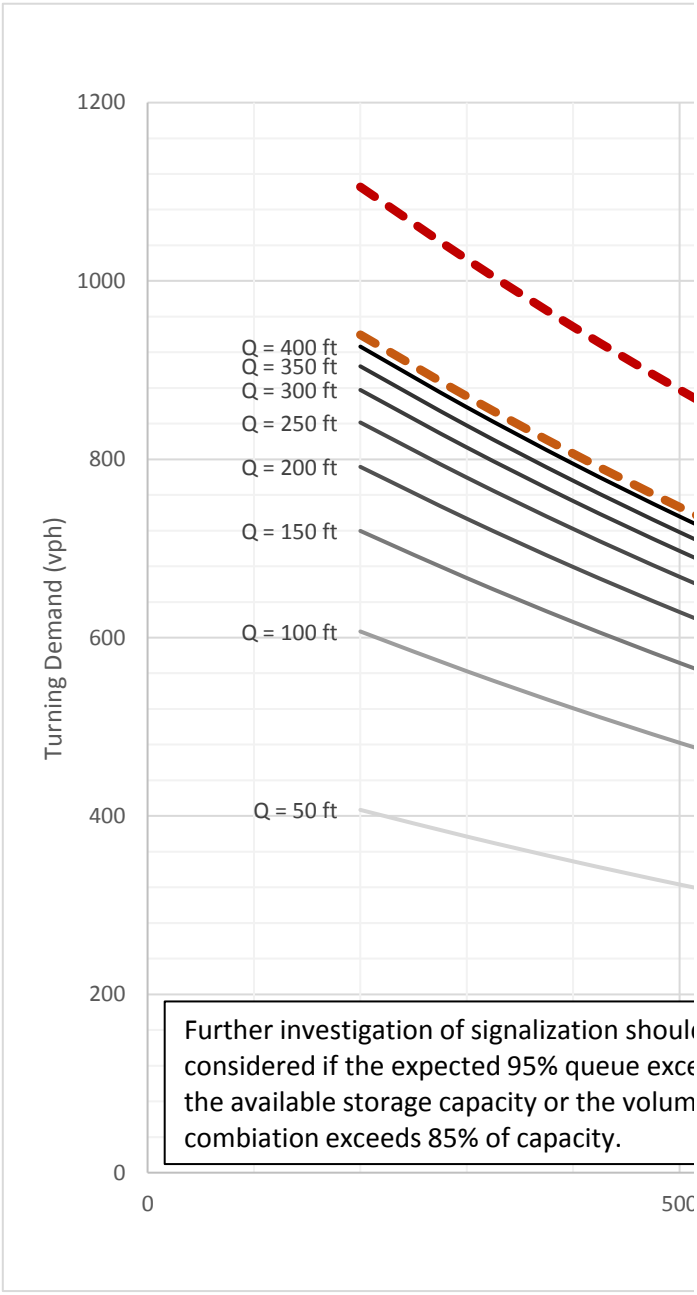
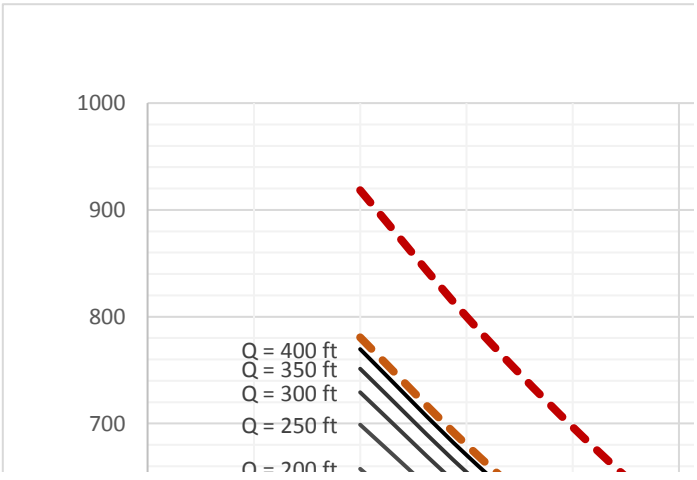
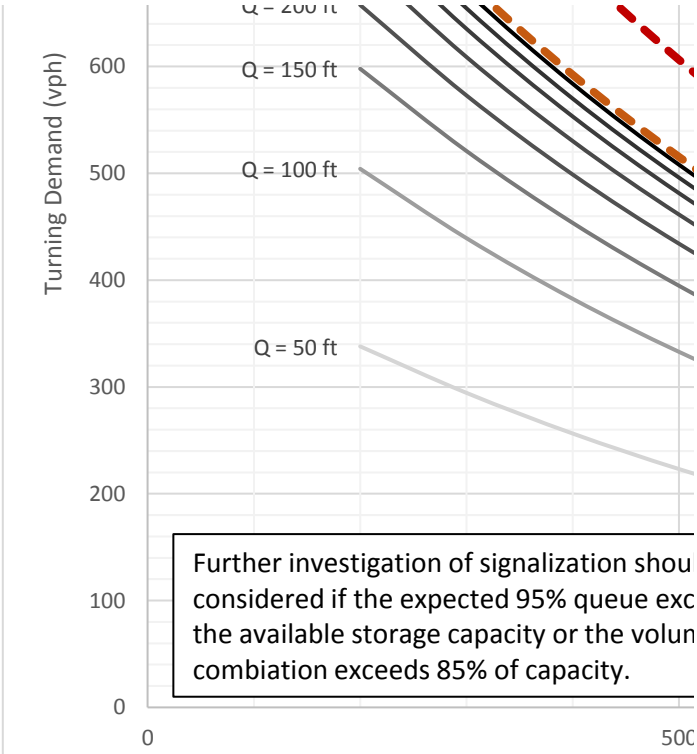
To see how the guidelines compare
and check the boxes of the warrants

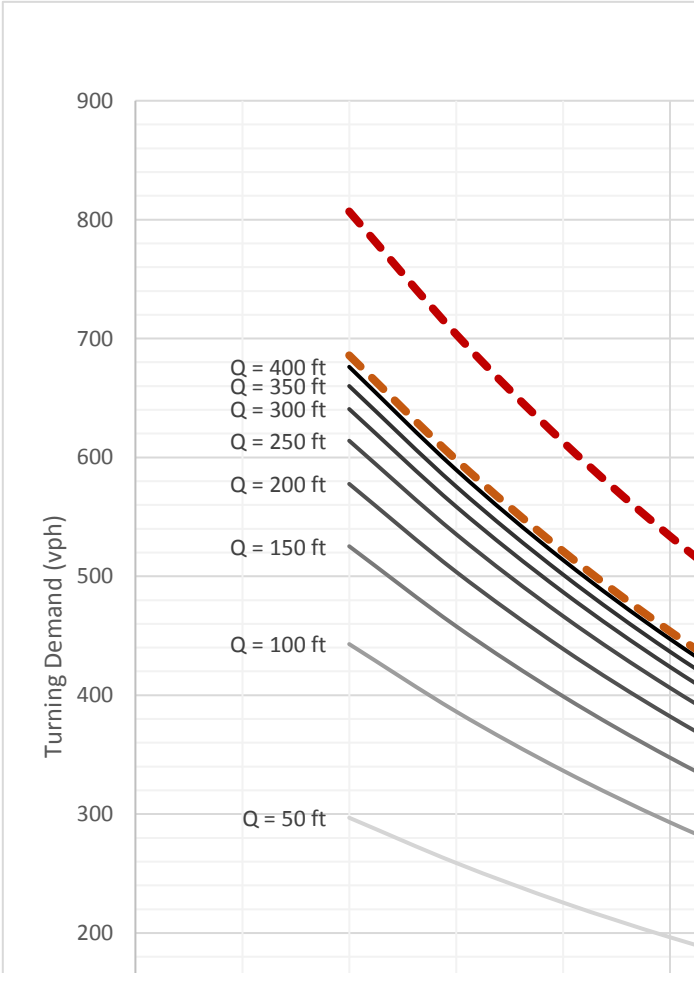
to other warrants, enter the chart's "sele
s you want to compare to

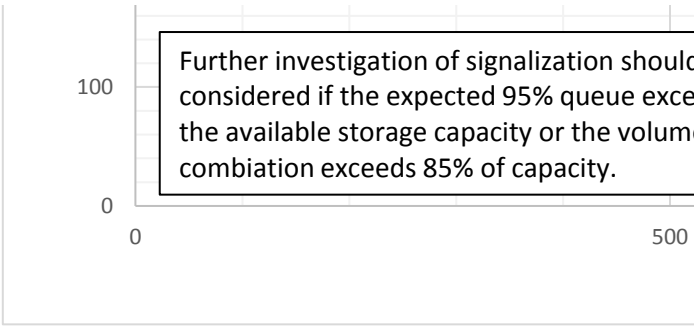
ct data" area

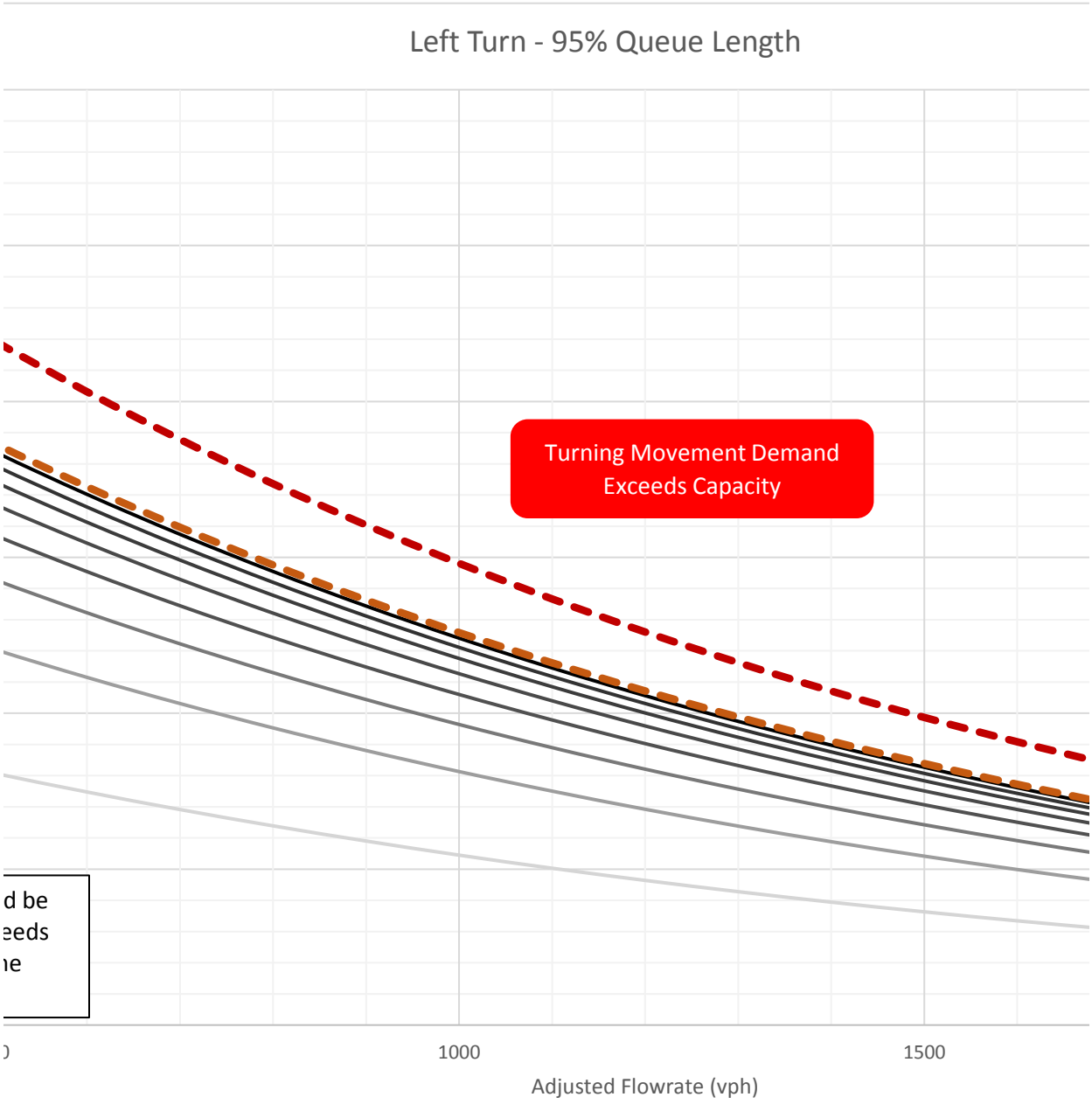

1200
1000
800
600
400
200
0
Turning Demand (vph)
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft
0
500
Further investigation of signalization should
considered if the expected 95% queue exce
the available storage capacity or the volum
combiation exceeds 85% of capacity.

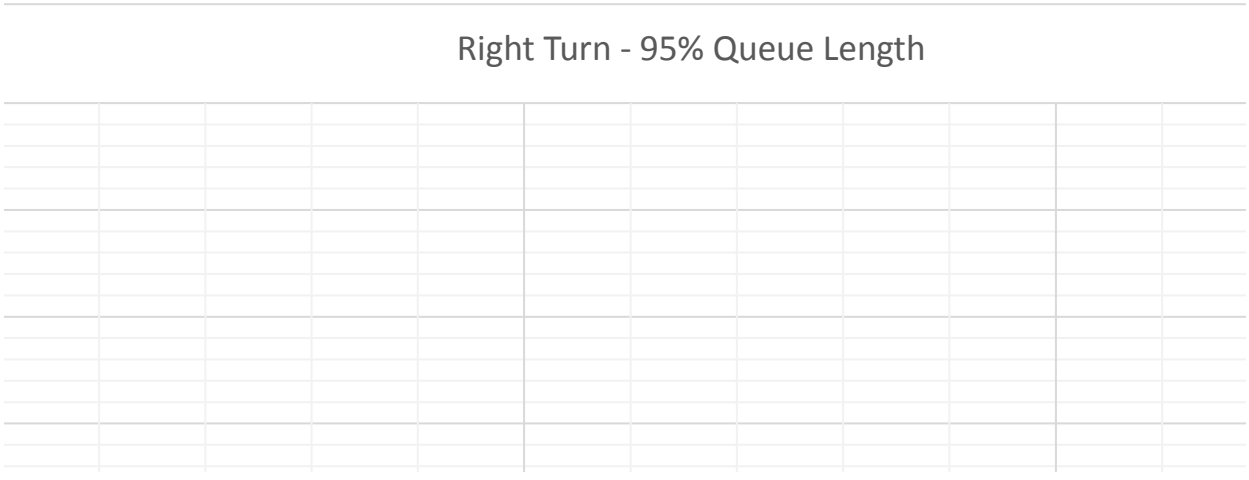

1000
900
800
700
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft

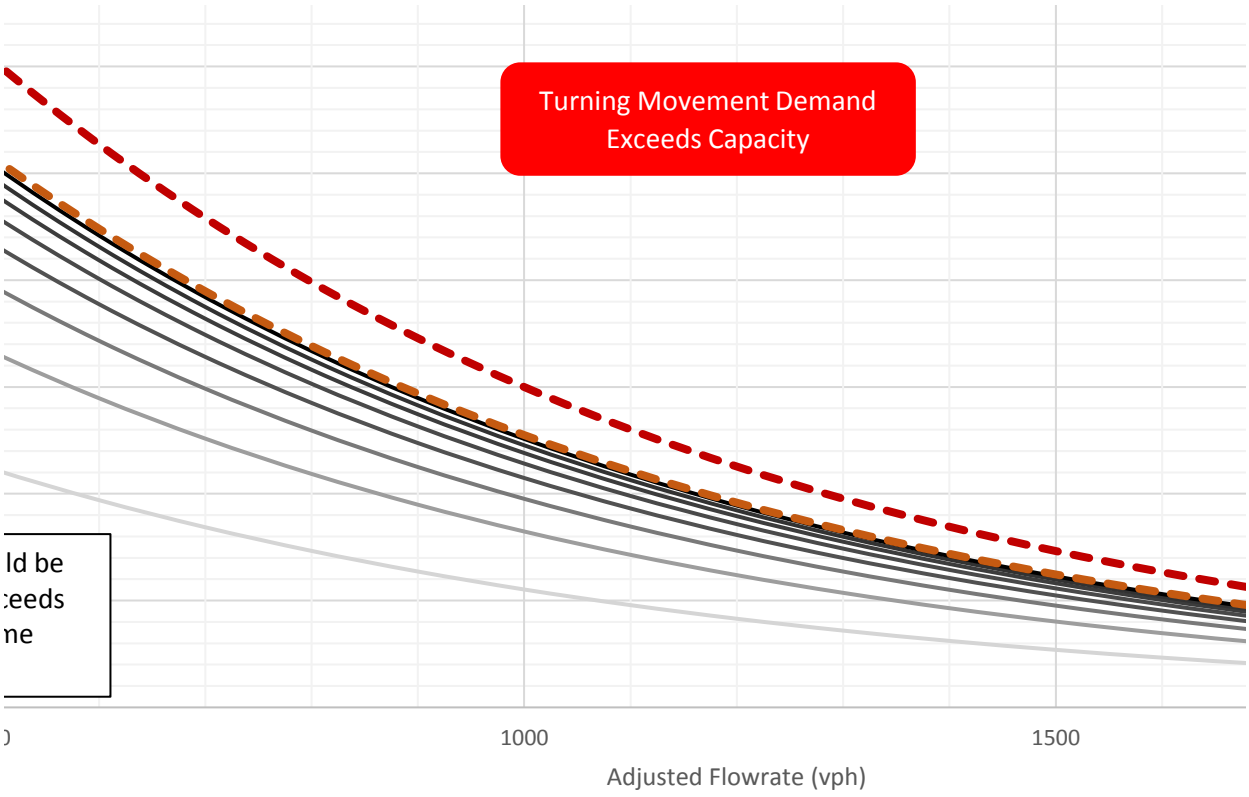

Turning Demand (vph)
600
500
400
300
200
100
0
Q = 150 ft
Q = 100 ft
Q = 50 ft
0
Further investigation of signalization shou
considered if the expected 95% queue exc
the available storage capacity or the volun
combiation exceeds 85% of capacity.


Turning Demand (vph)
900
800
700
600
500
400
300
200
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft

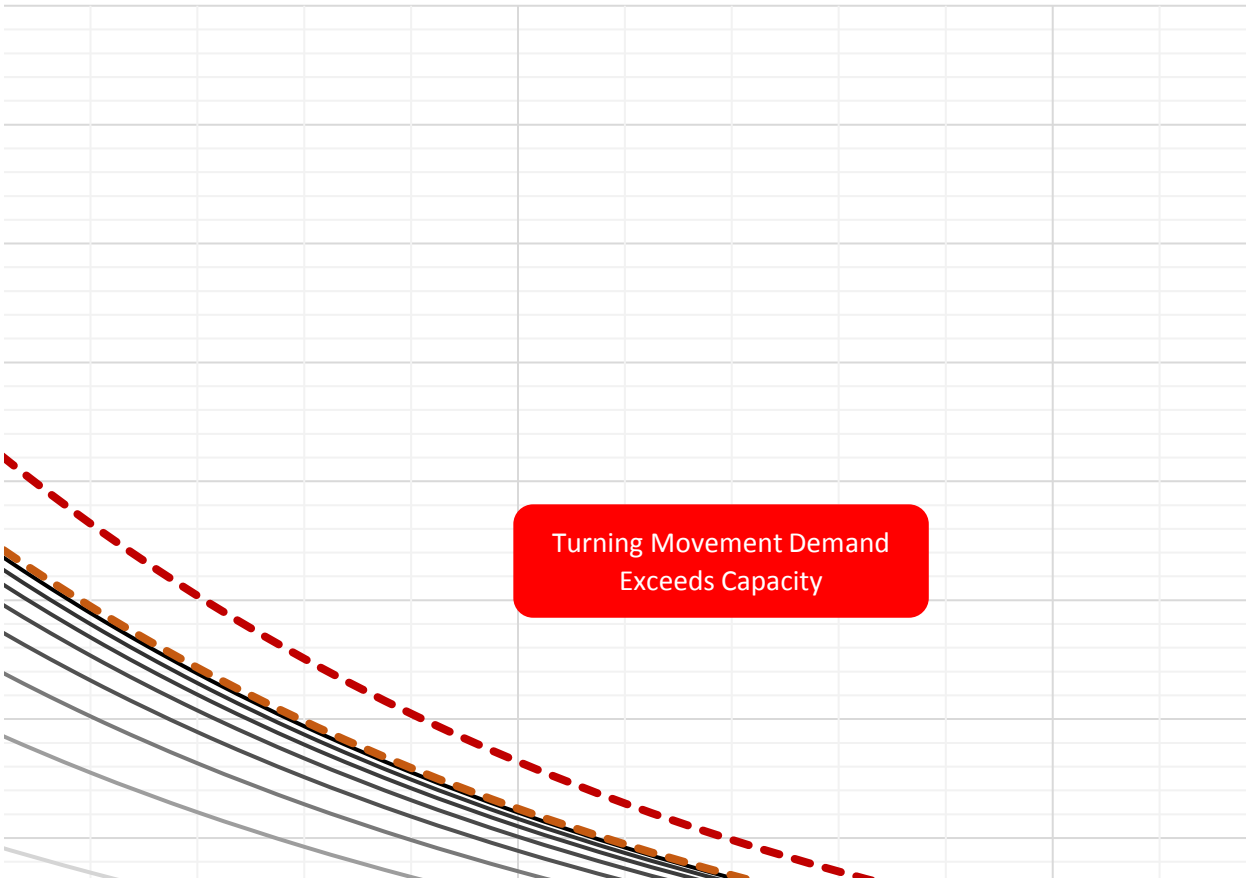

100
0
0
500
Further investigation of signalization should
considered if the expected 95% queue exce
the available storage capacity or the volum
combiation exceeds 85% of capacity.

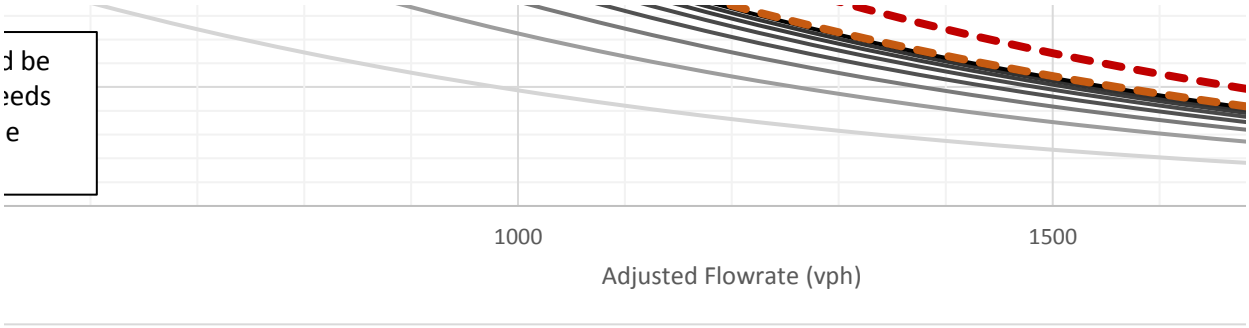

Left Turn - 95% Queue Length
Turning Movement Demand Exceeds Capacity
d be
eeds
ıe
1000
1500
Adjusted Flowrate (vph)


Right Turn - 95% Queue Length

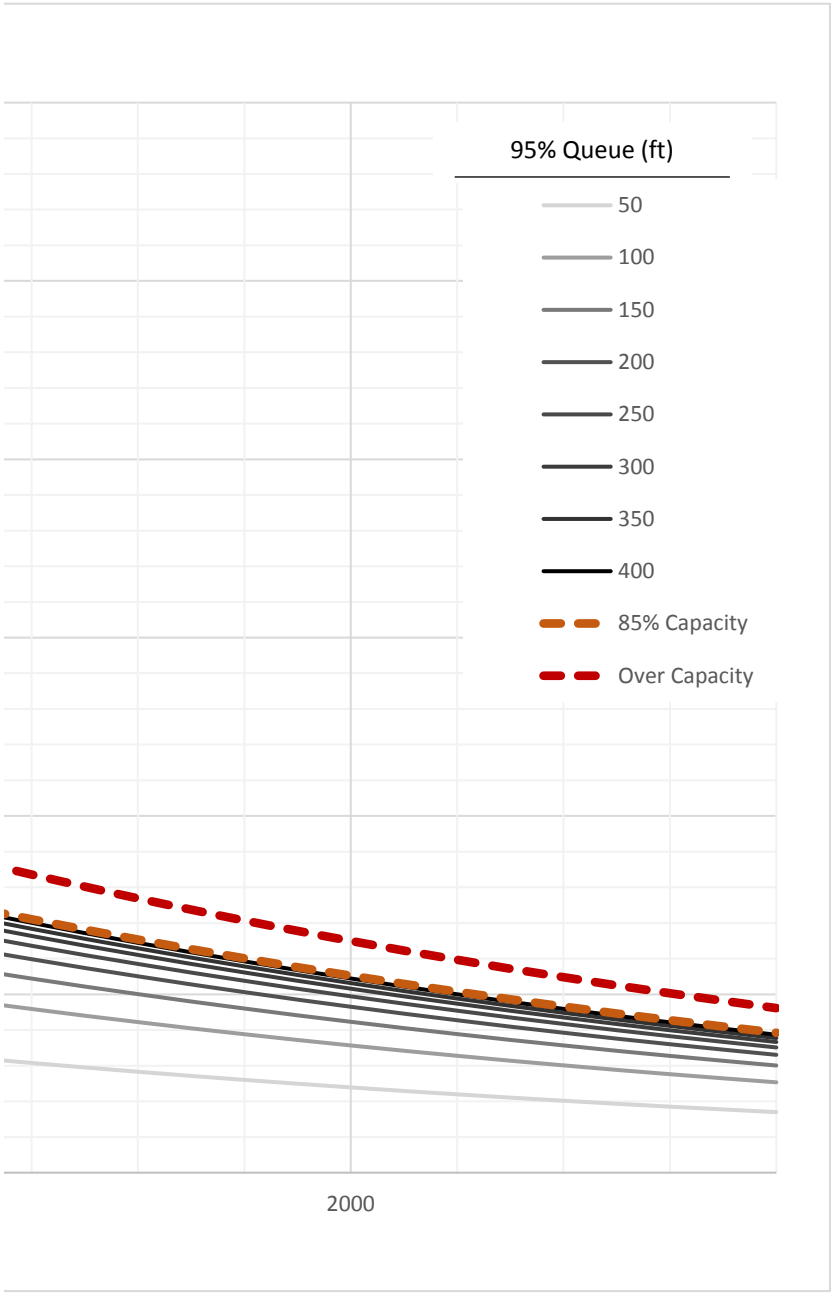


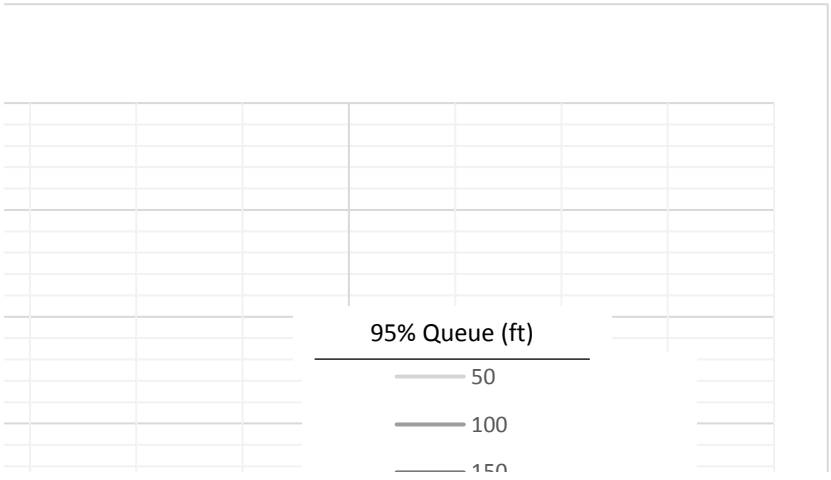
U Turn - 95% Queue Length

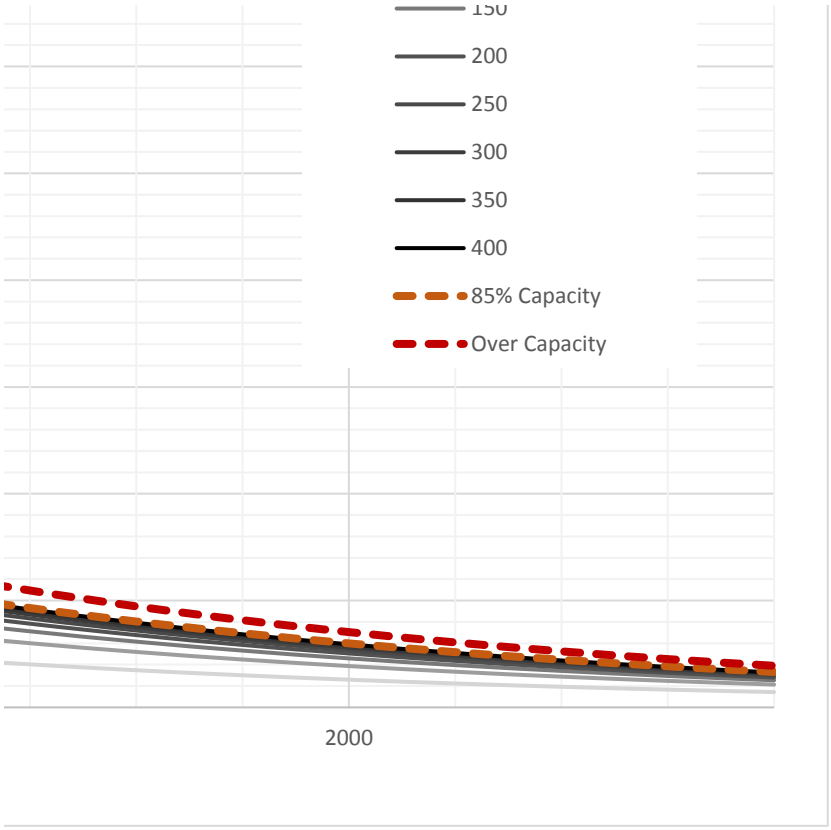


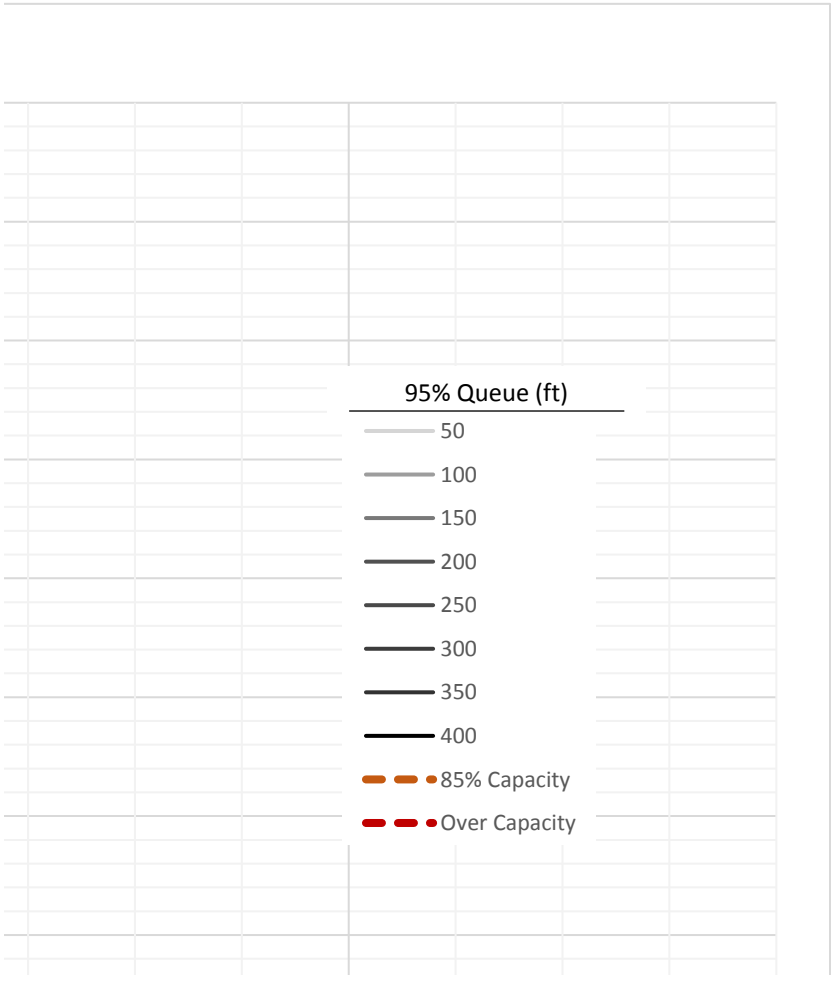

d be
eeds
e
1000
1500
Adjusted Flowrate (vph)

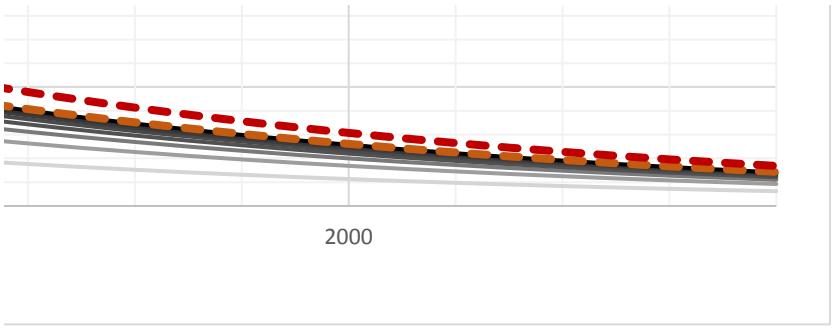
Adjusted Flowrate (vpl



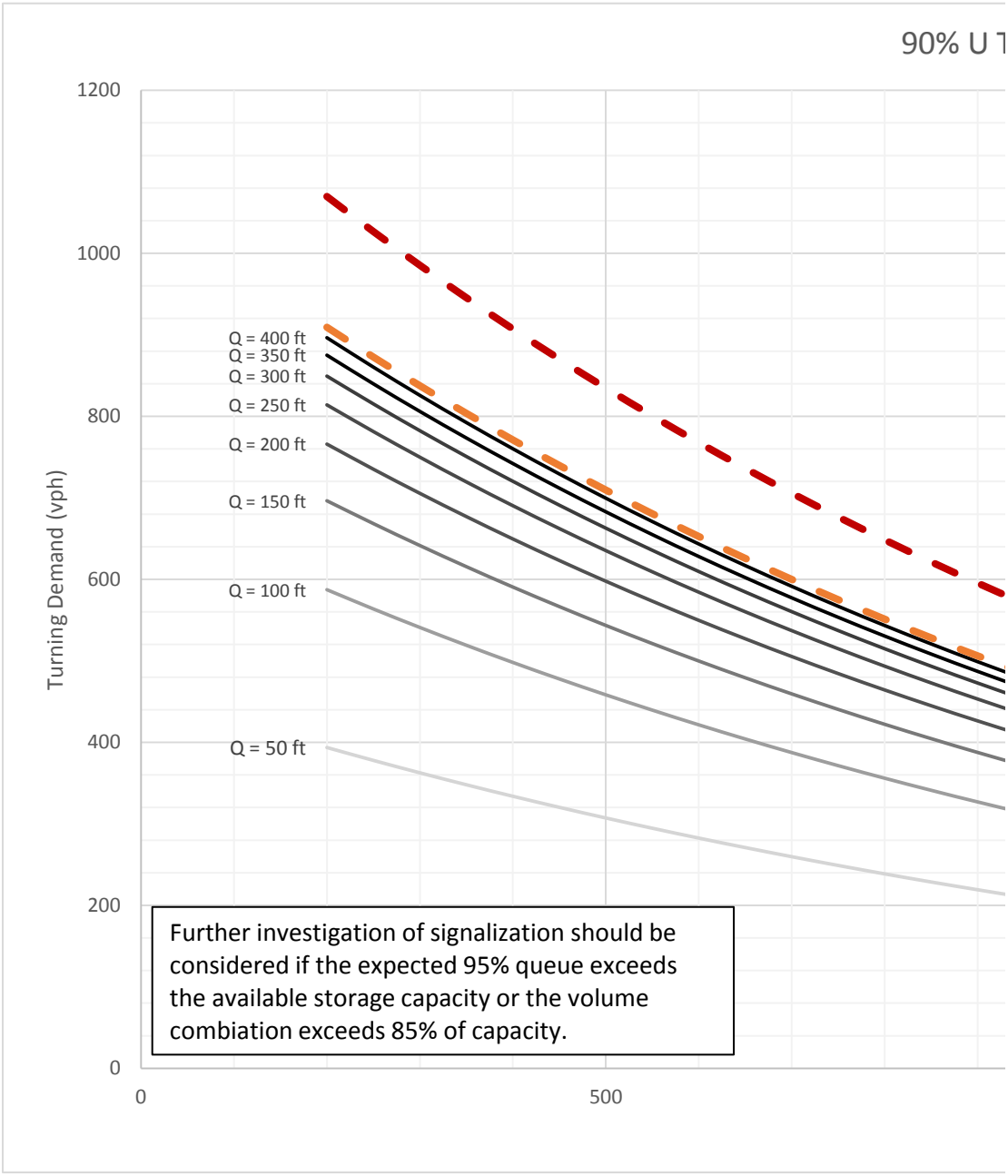


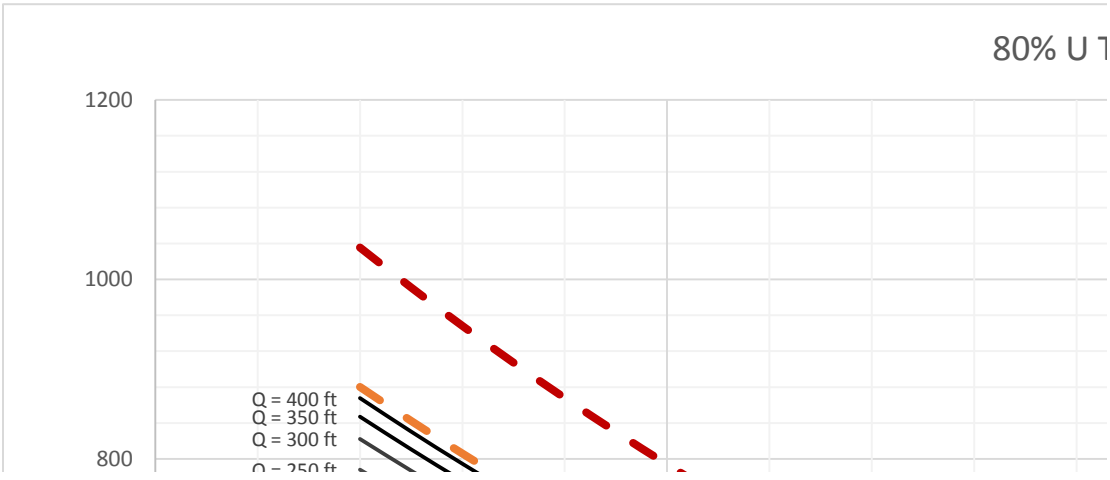

150
200
250
300
350
400
85% Capacity
Over Capacity
2000

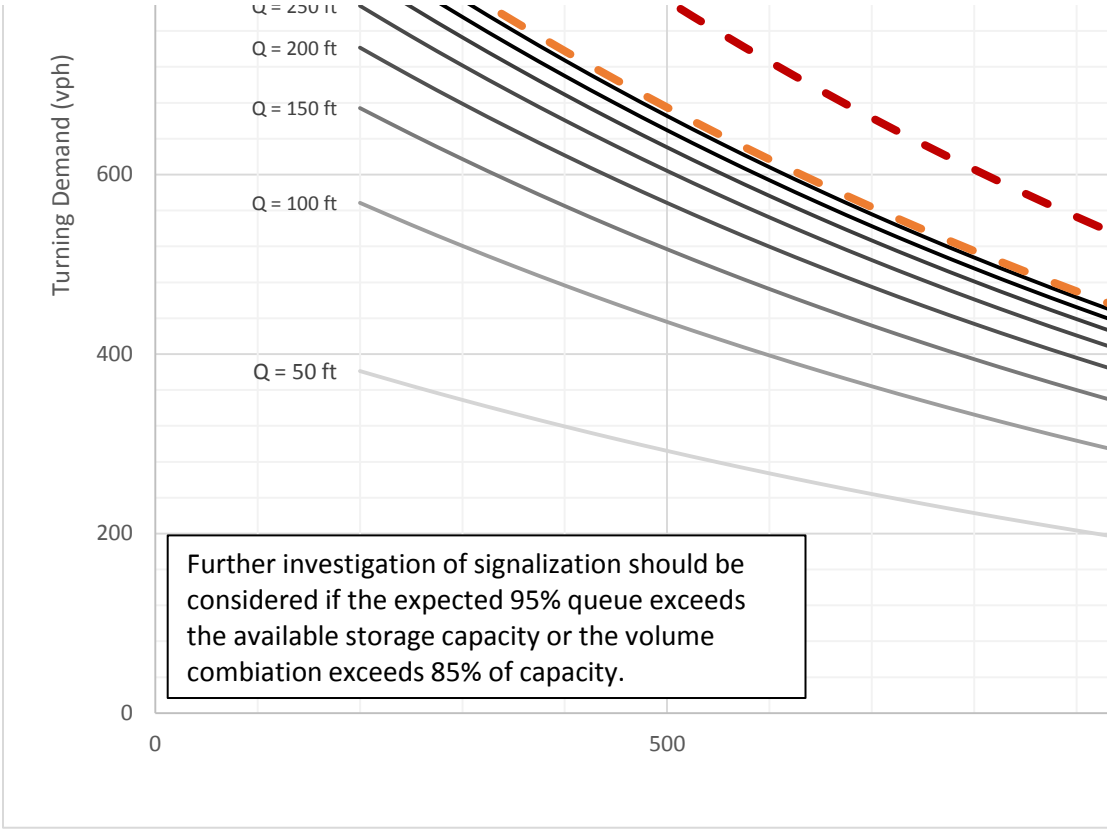

95% Queue (ft)
50
100
150
200
250
300
350
400
85% Capacity
Over Capacity

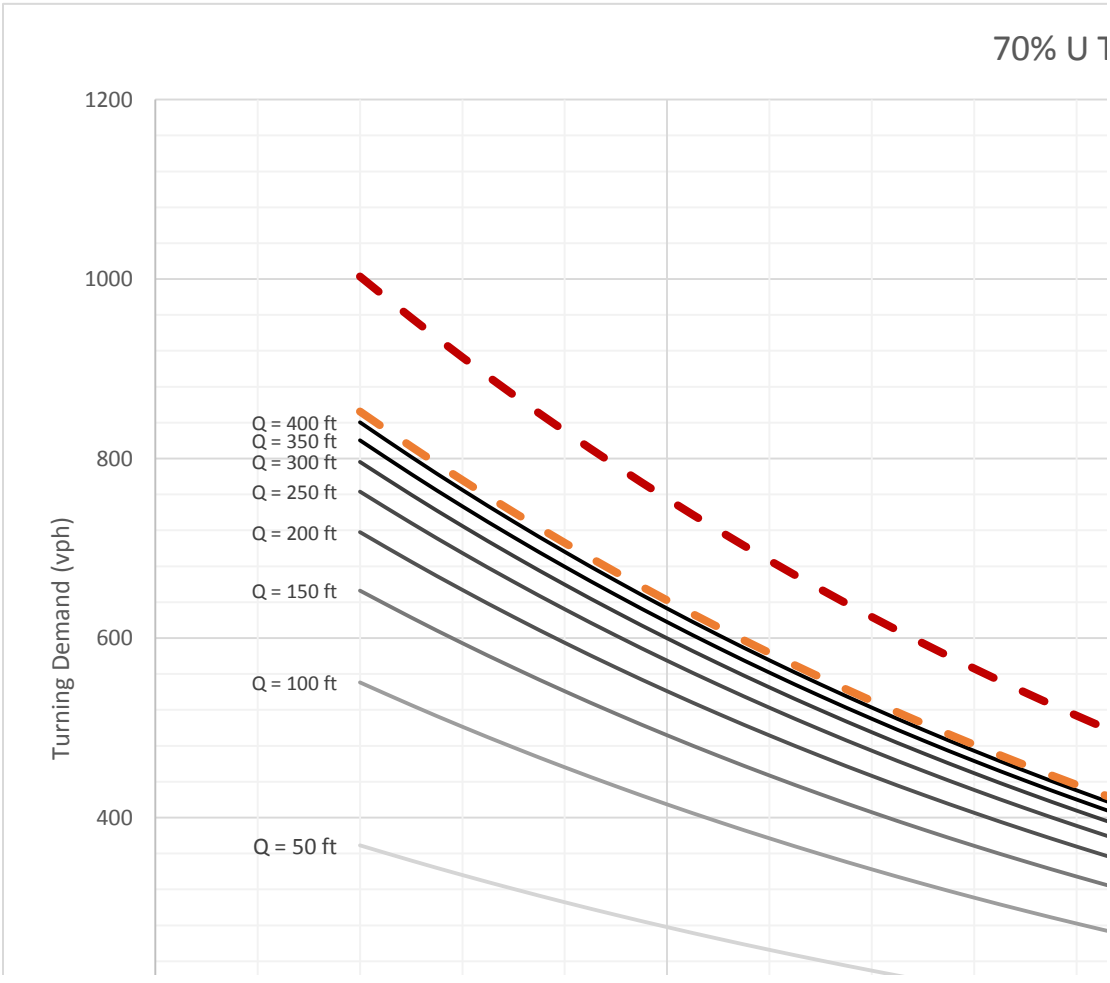

2000

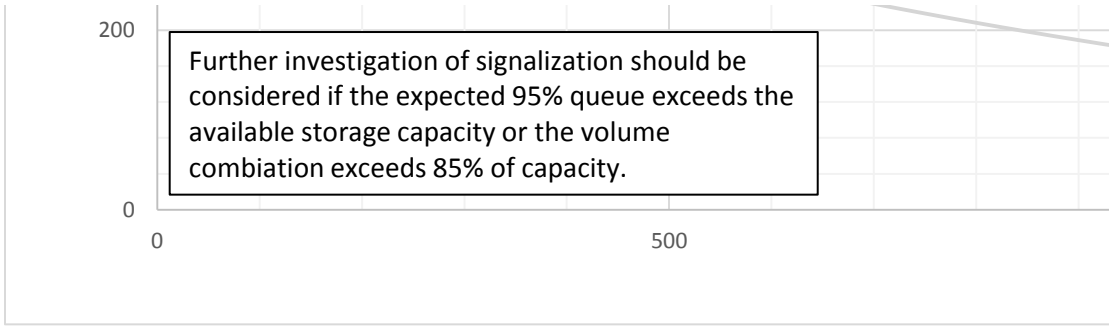
ו)


90% U T
1200
1000
800
600
400
200
0
Turning Demand (vph)
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft
0
500
Further investigation of signalization should be considered if the expected 95% queue exceeds the available storage capacity or the volume combiation exceeds 85% of capacity.

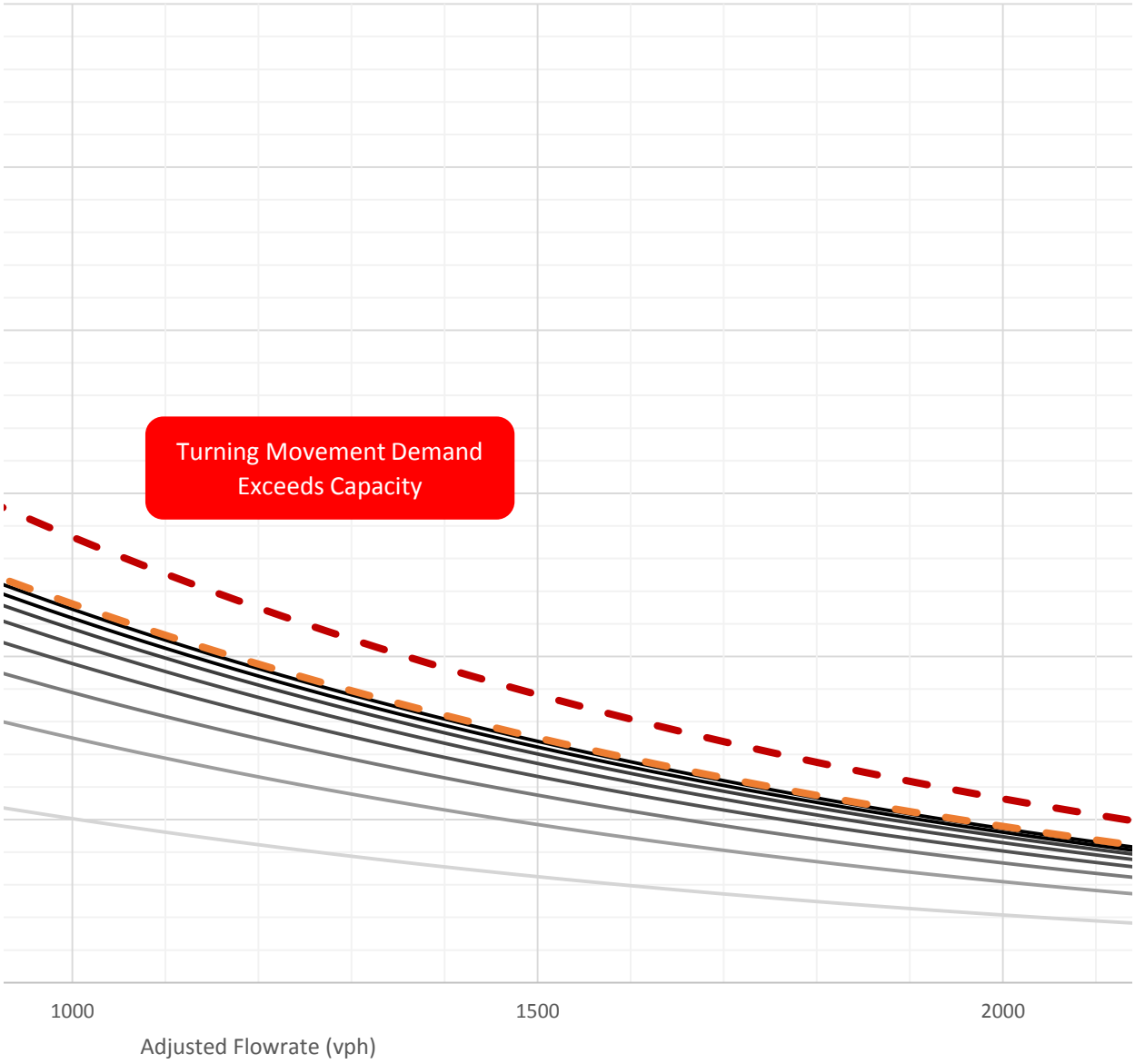

80% U T
1200
1000
800
Q = 400 ft
Q = 350 ft
Q = 300 ft


Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft
Turning Demand (vph)
600
400
200
0
0
500
Further investigation of signalization should be considered if the expected 95% queue exceeds the available storage capacity or the volume combiation exceeds 85% of capacity.

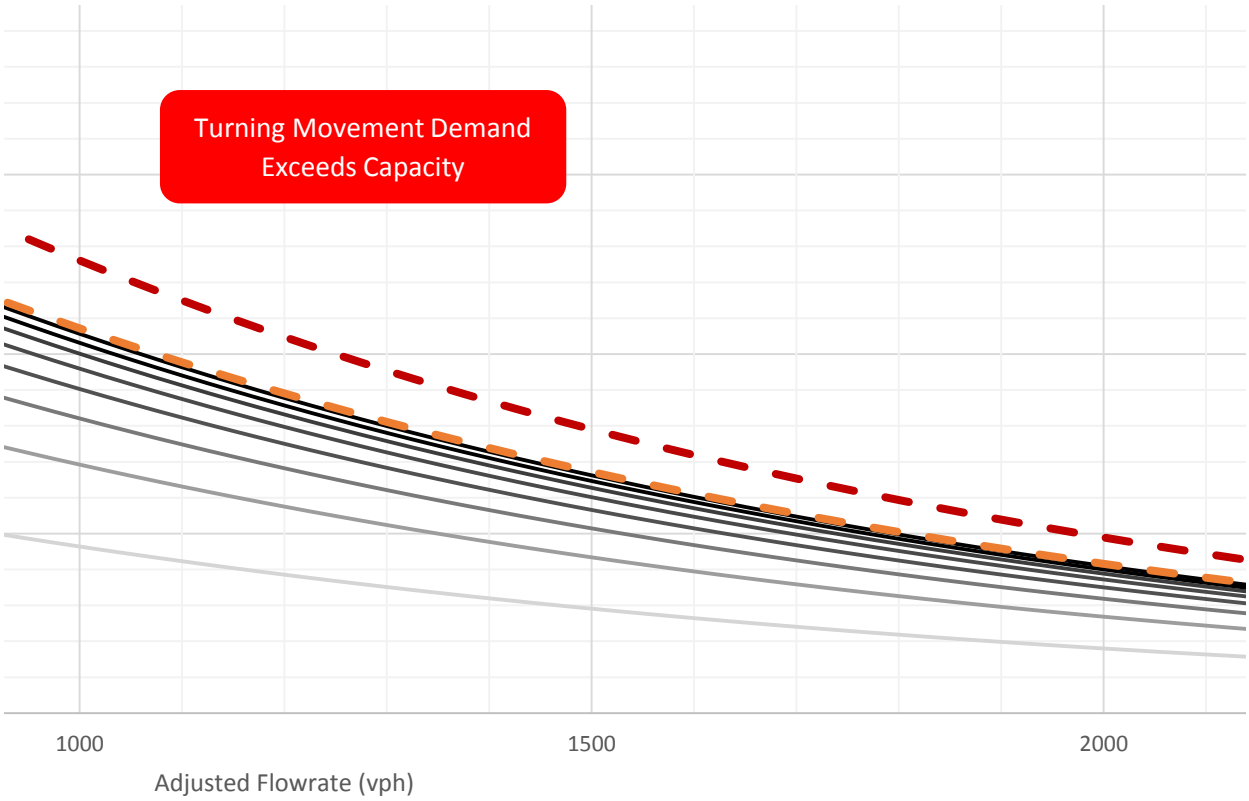

70% U T
1200
1000
800
600
400
Turning Demand (vph)
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft


200
0
0
500
Further investigation of signalization should be considered if the expected 95% queue exceeds the available storage capacity or the volume combiation exceeds 85% of capacity.

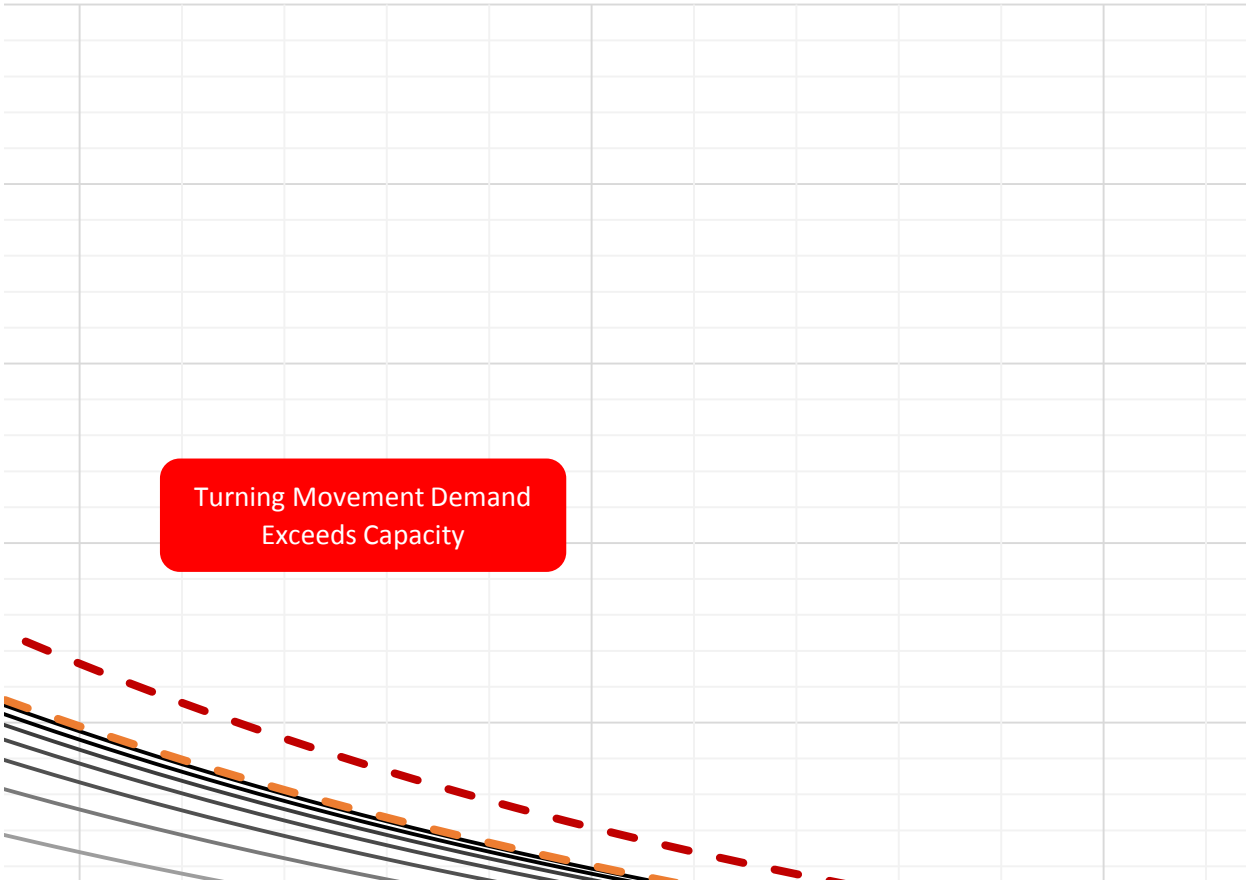
Turn, 10% Left Turn - 95% Queue Length

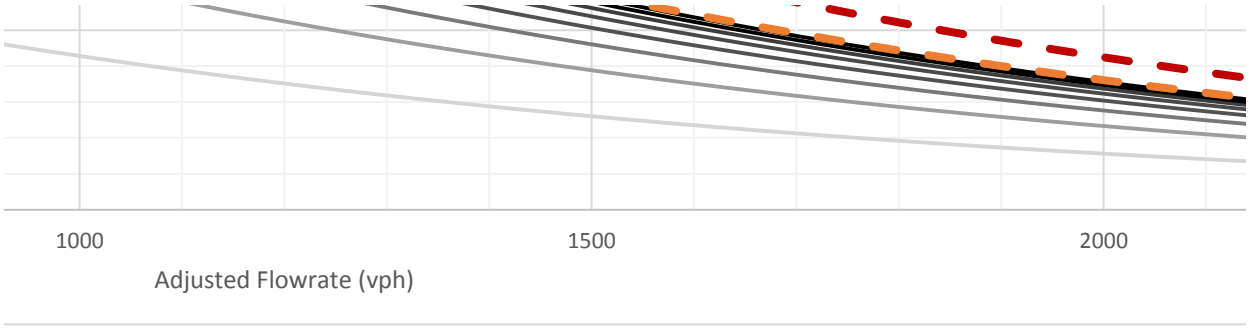


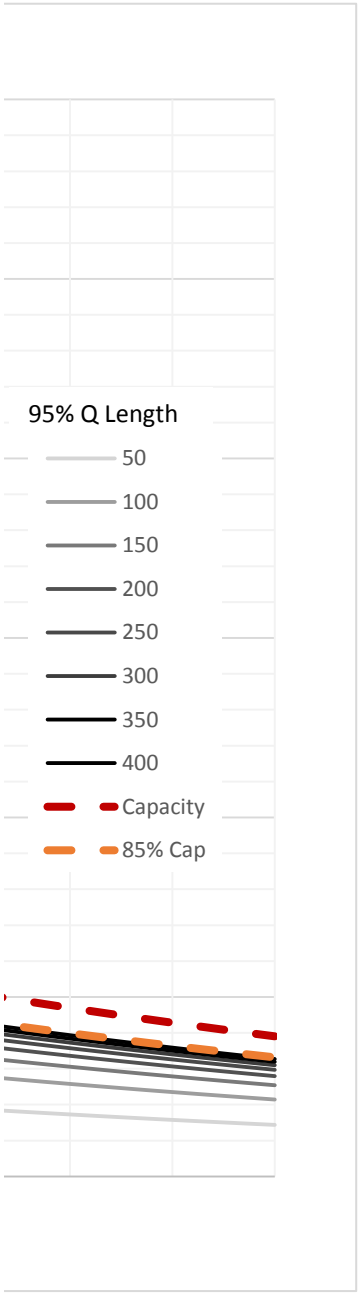
Turn, 20% Left Turn - 95% Queue Length

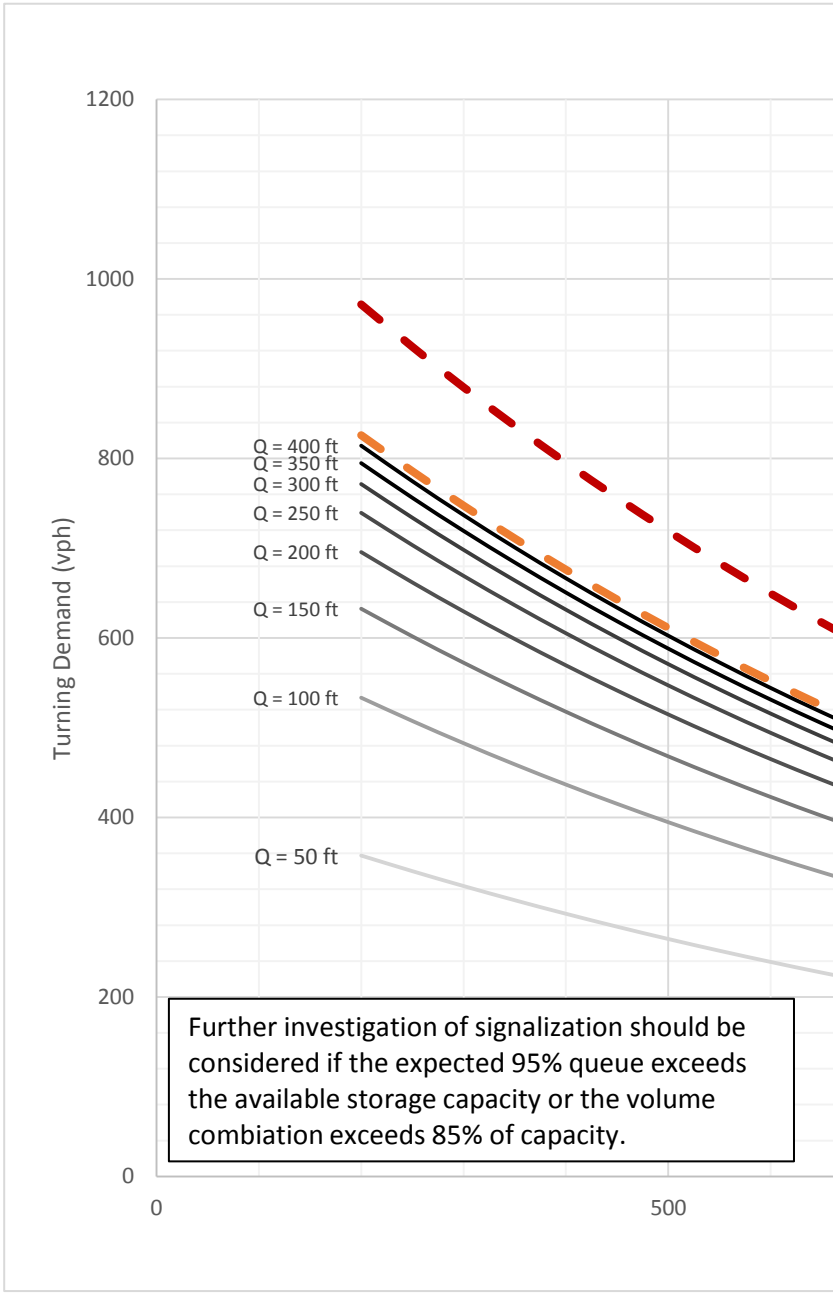


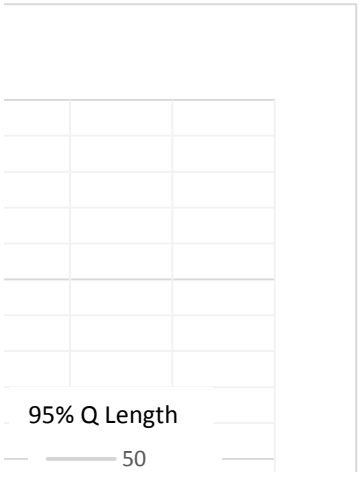
Turn, 30% Left Turn - 95% Queue Length

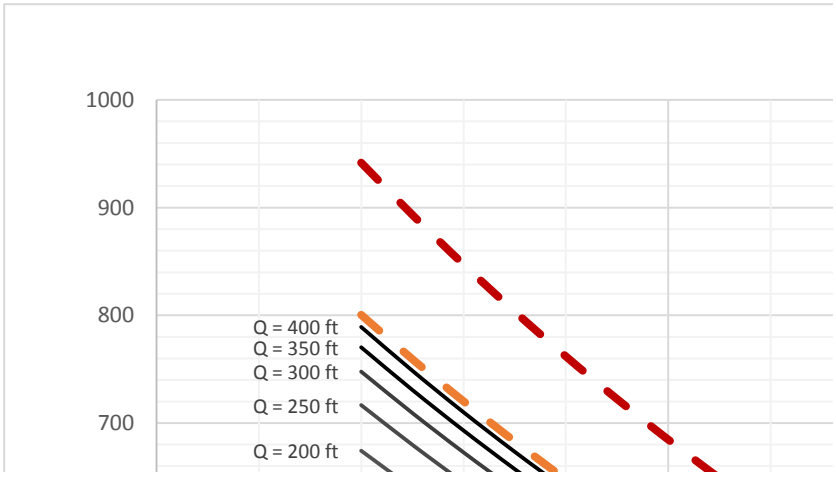


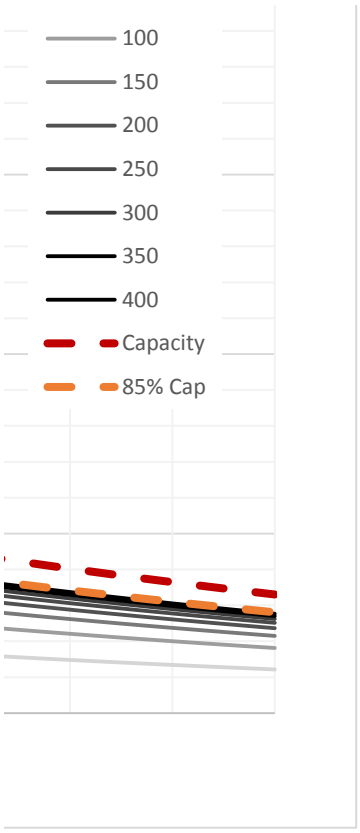

1000
1500
2000
Adjusted Flowrate (vph)

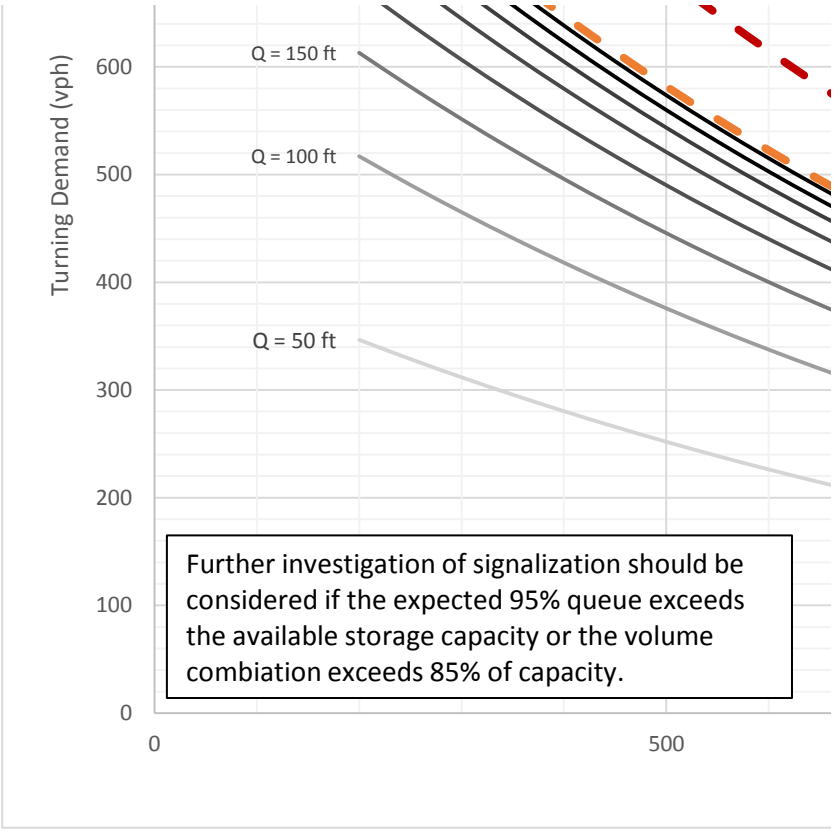

95% Q Length
50
100
150
200
250
300
350
400
Capacity
85% Cap

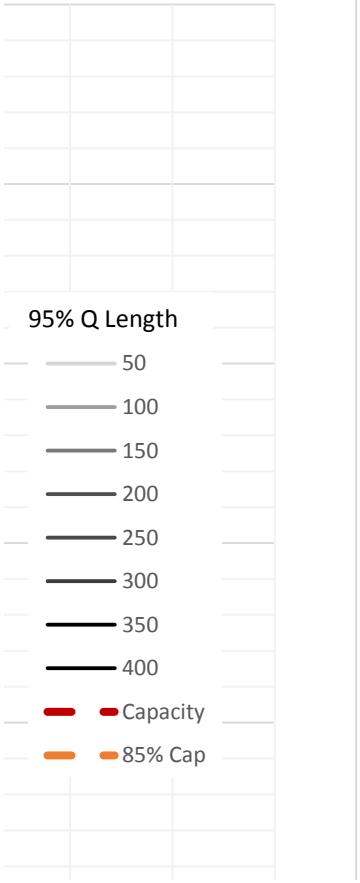

1200
1000
800
600
400
200
0
Turning Demand (vph)
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft
0
500
Further investigation of signalization should be considered if the expected 95% queue exceeds the available storage capacity or the volume combiation exceeds 85% of capacity.

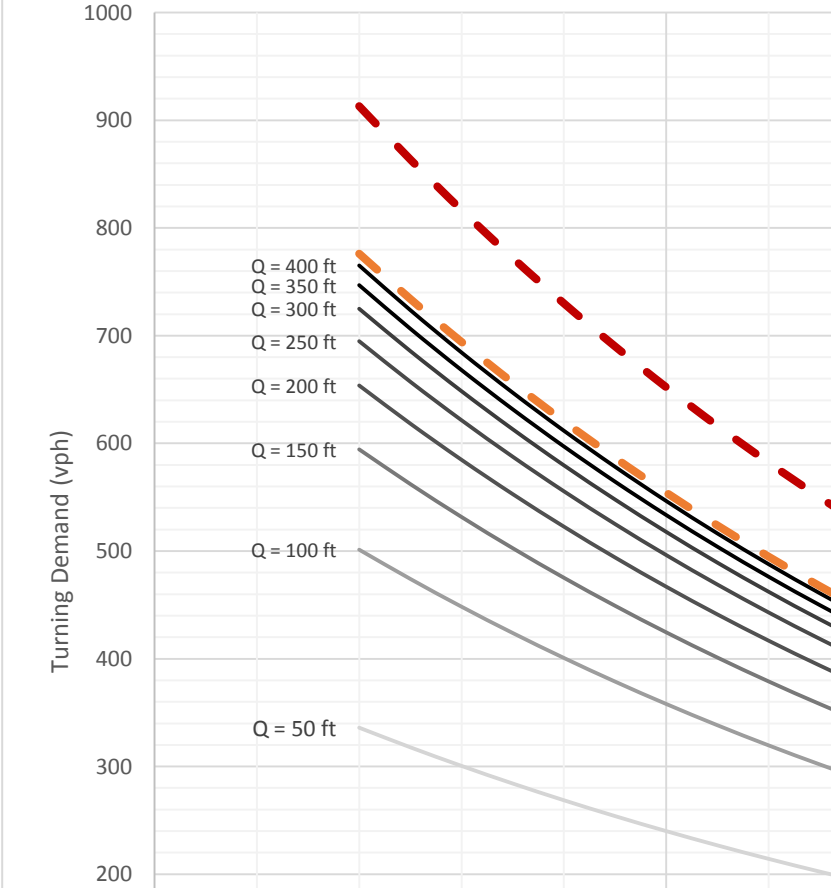

95% Q Length
50

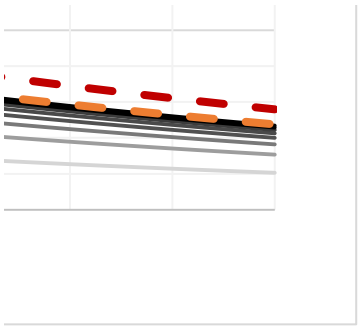

1000
900
800
700
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft

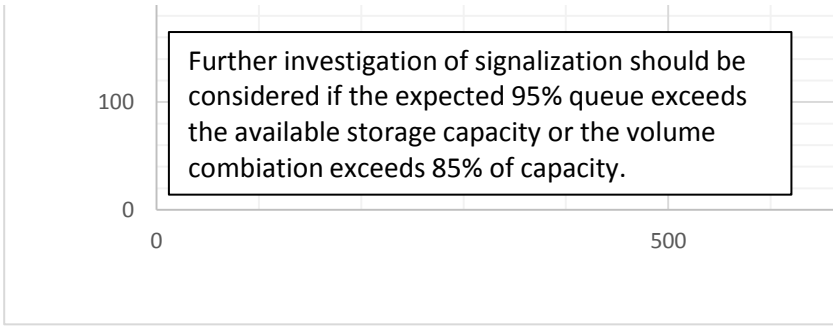

100
150
200
250
300
350
400
Capacity
85% Cap


Turning Demand (vph)
600
500
400
300
200
100
0
0
500
Q = 150 ft
Q = 100 ft
Q = 50 ft
Further investigation of signalization should be considered if the expected 95% queue exceeds the available storage capacity or the volume combiation exceeds 85% of capacity.

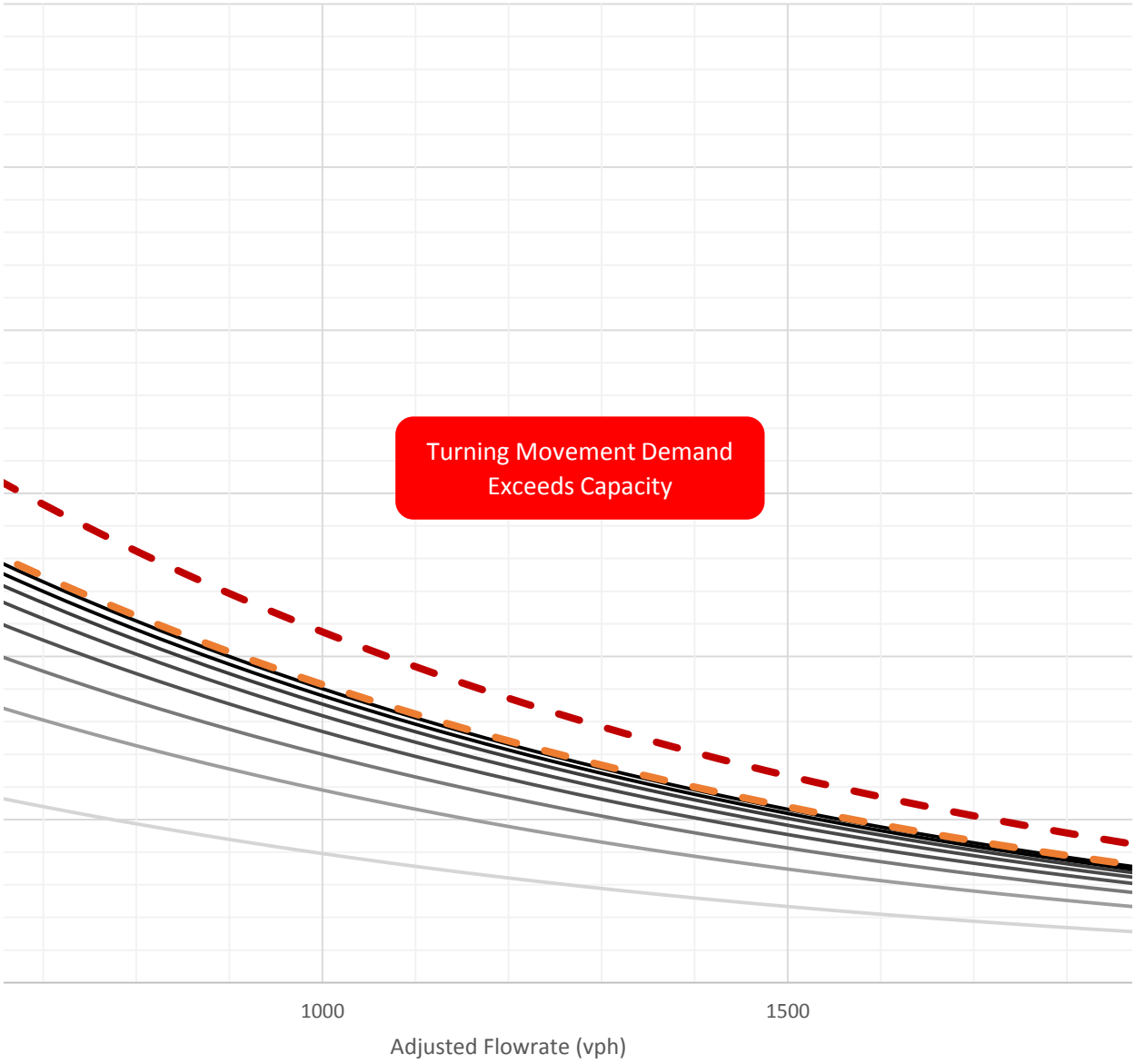

95% Q Length
50
100
150
200
250
300
350
400
Capacity
85% Cap


Turning Demand (vph)
1000
900
800
700
600
500
400
300
200
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft

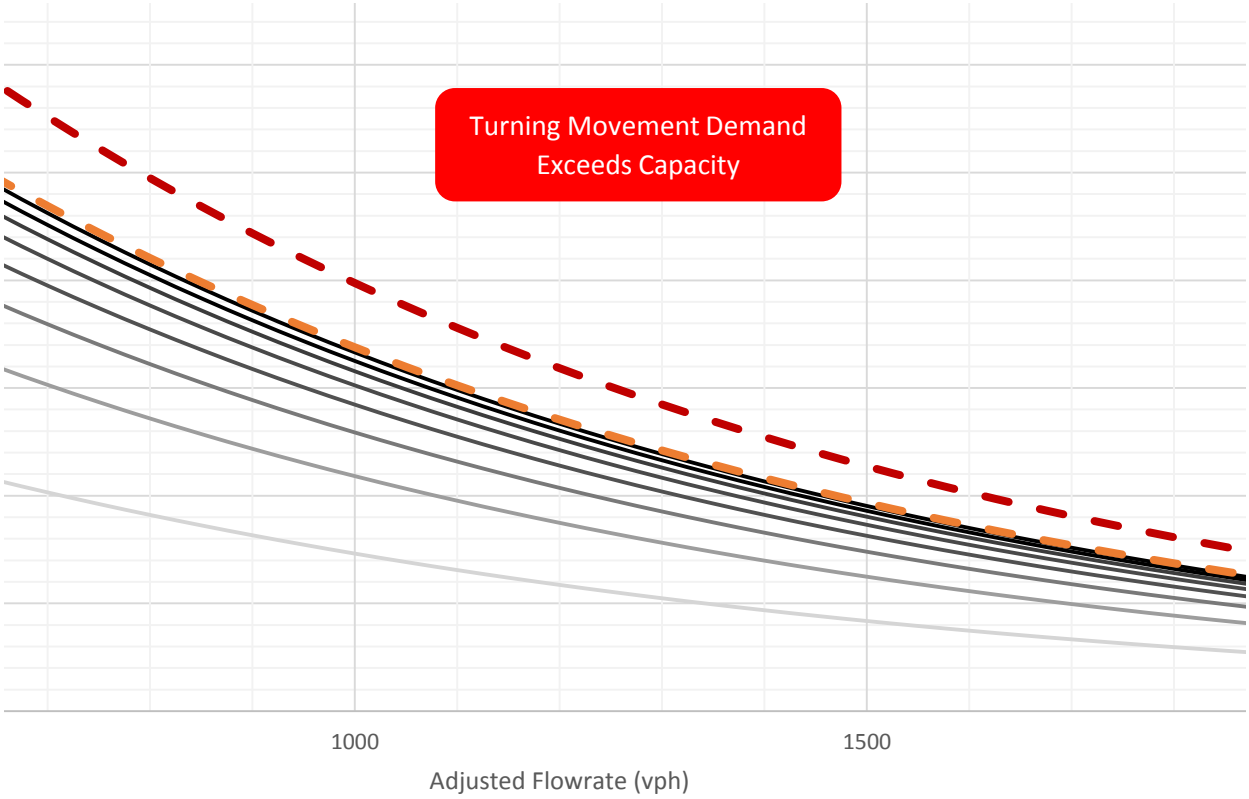



100
0
0
500
Further investigation of signalization should be considered if the expected 95% queue exceeds the available storage capacity or the volume combiation exceeds 85% of capacity.

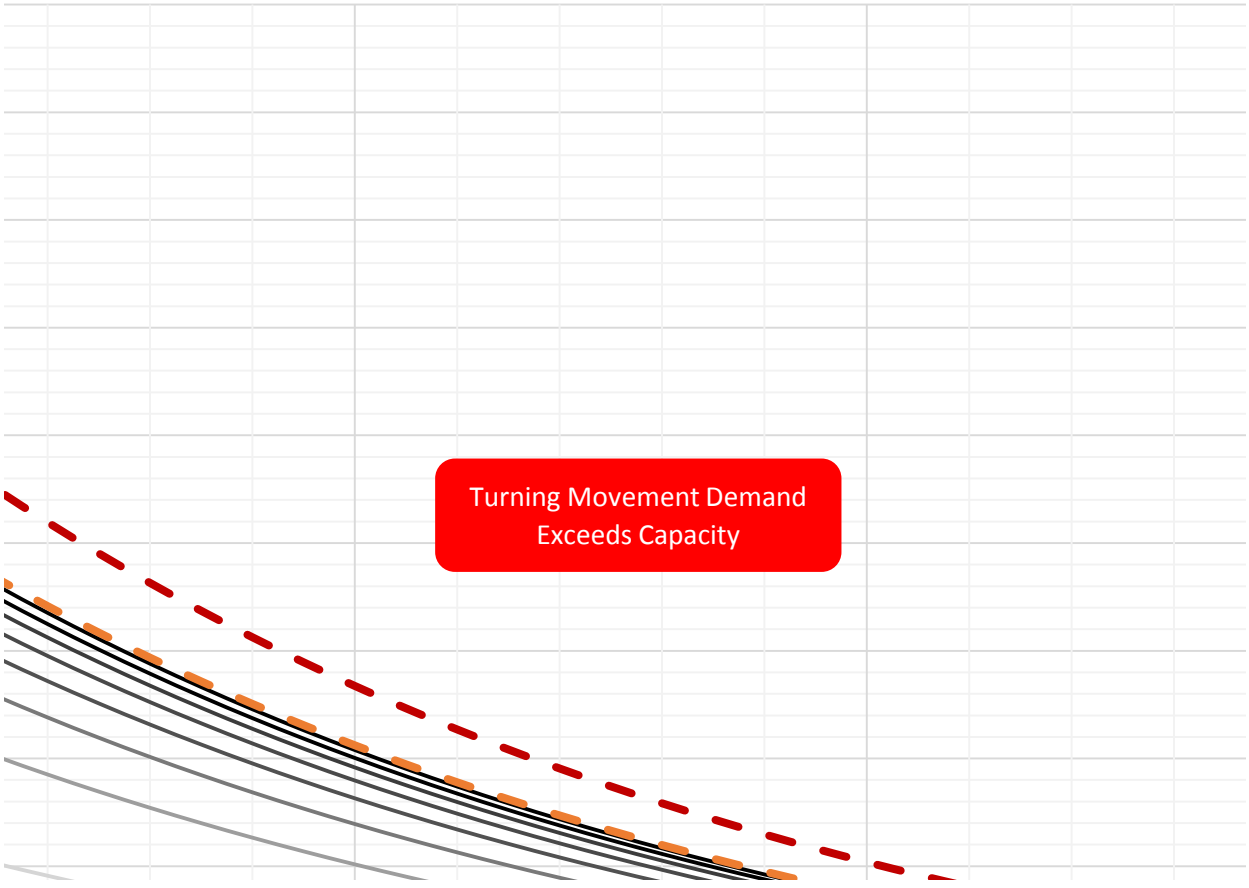
60% U Turn, 40% Left Turn - 95% Queue Length

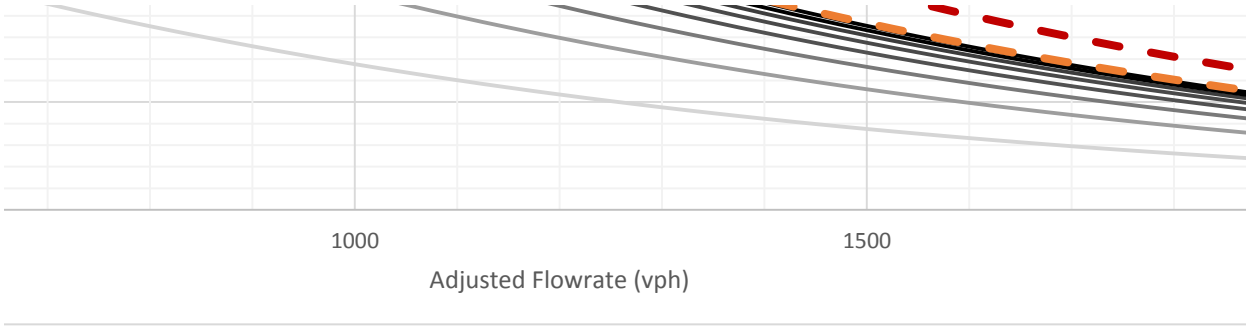


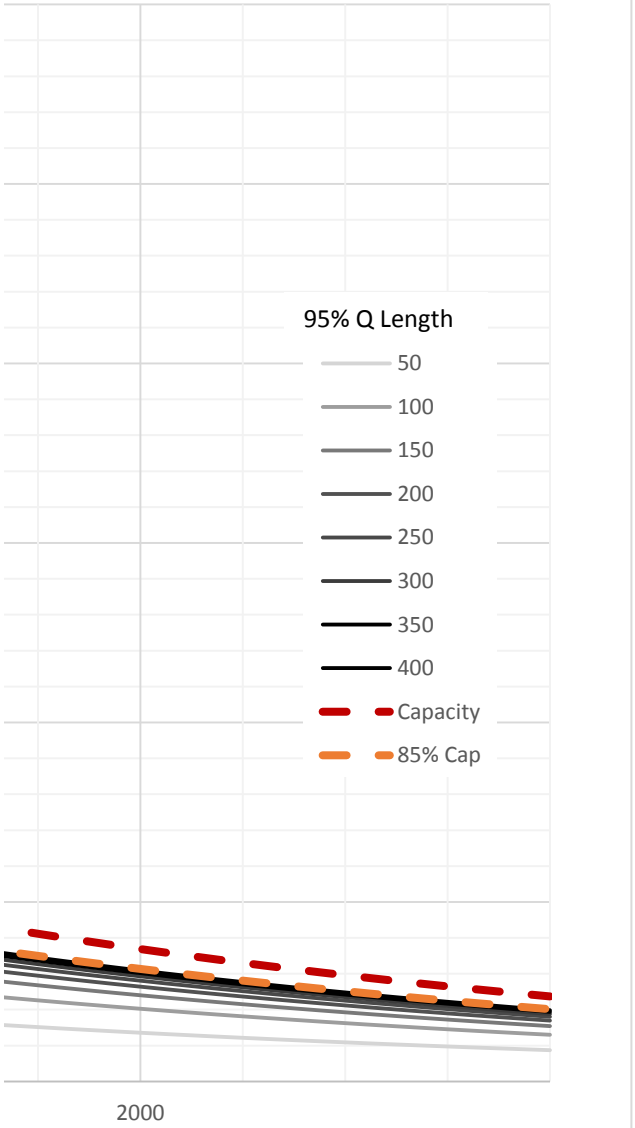
50% U Turn, 50% Left Turn - 95% Queue Length

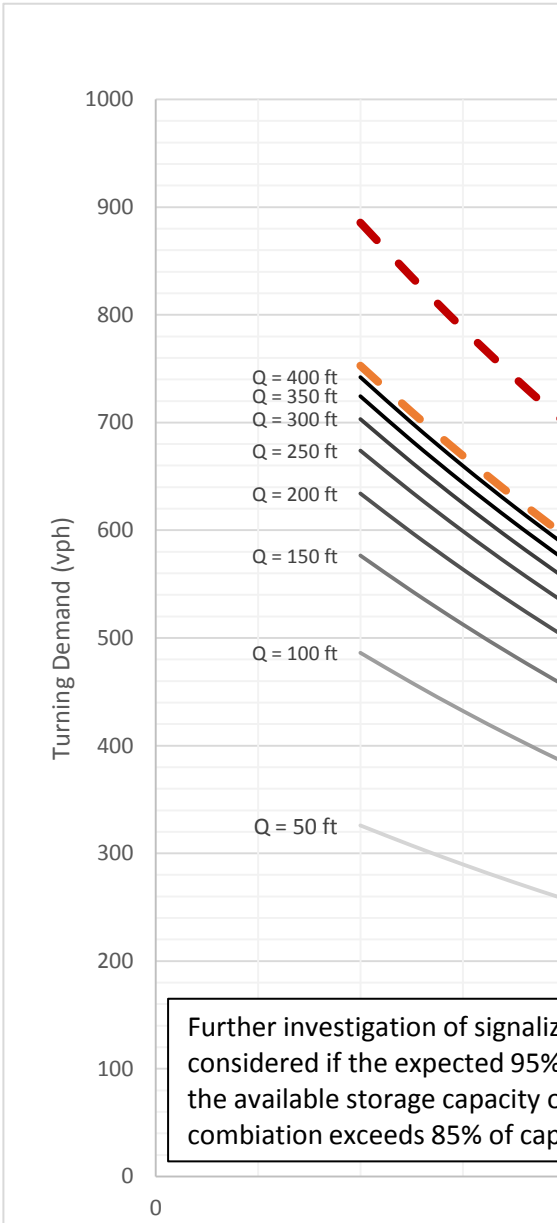


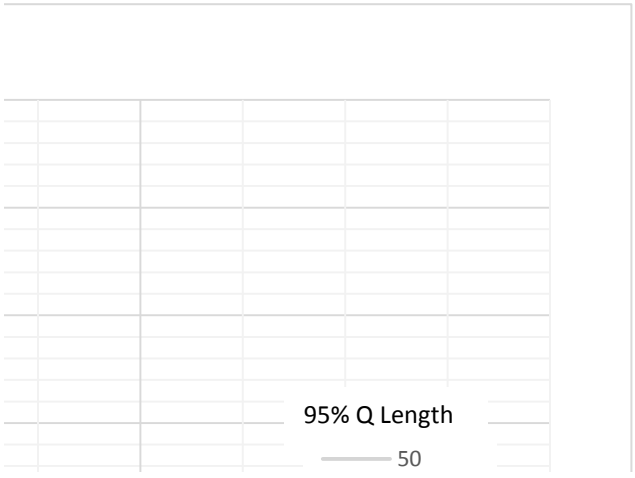
40% U Turn, 60% Left Turn - 95% Queue Length

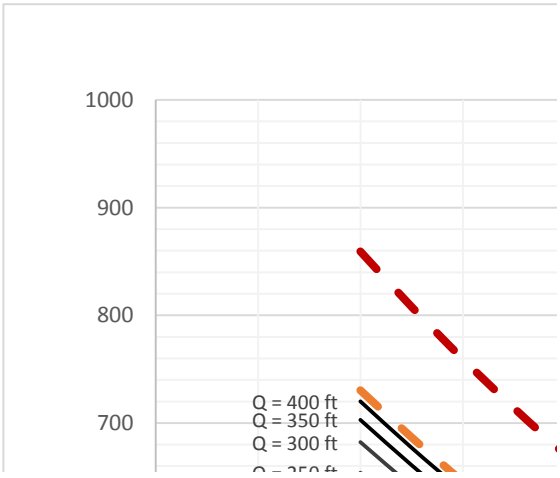


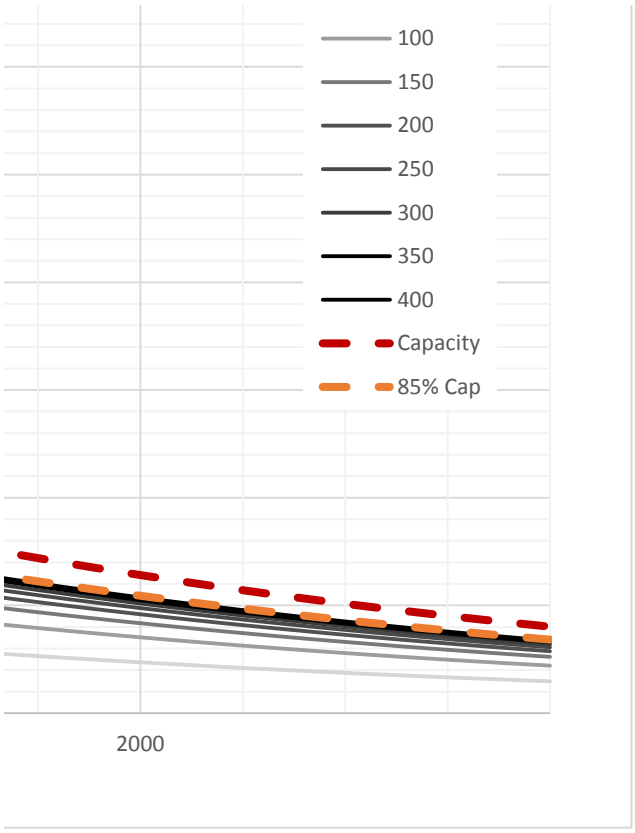

1000
1500
Adjusted Flowrate (vph)

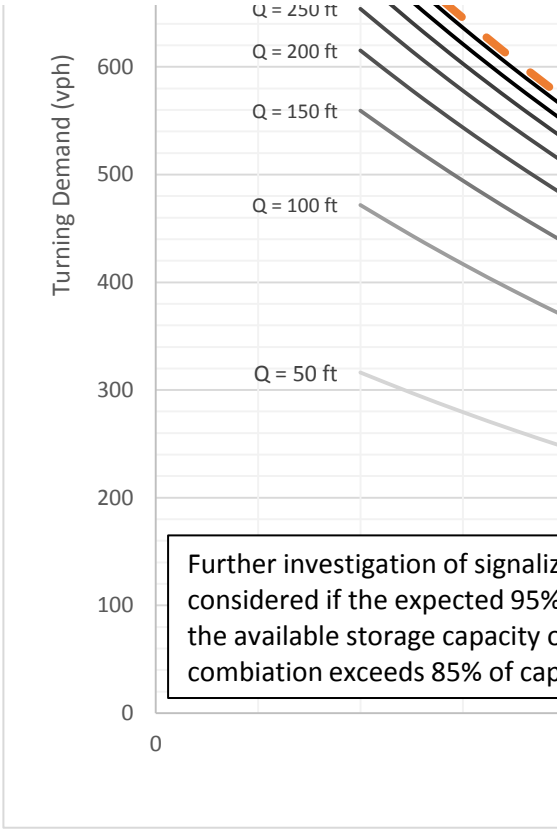

95% Q Length
50
100
150
200
250
300
350
400
Capacity
85% Cap
2000

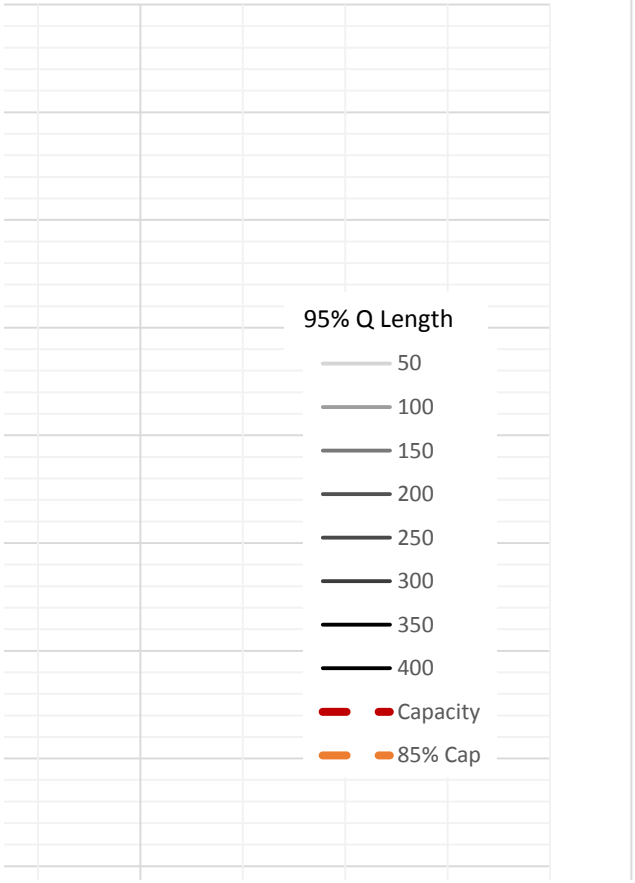

1000
900
800
700
600
500
400
300
200
100
0
Turning Demand (vph)
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft
0
Further investigation of signaliz
considered if the expected 95%
the available storage capacity c
combiation exceeds 85% of cap

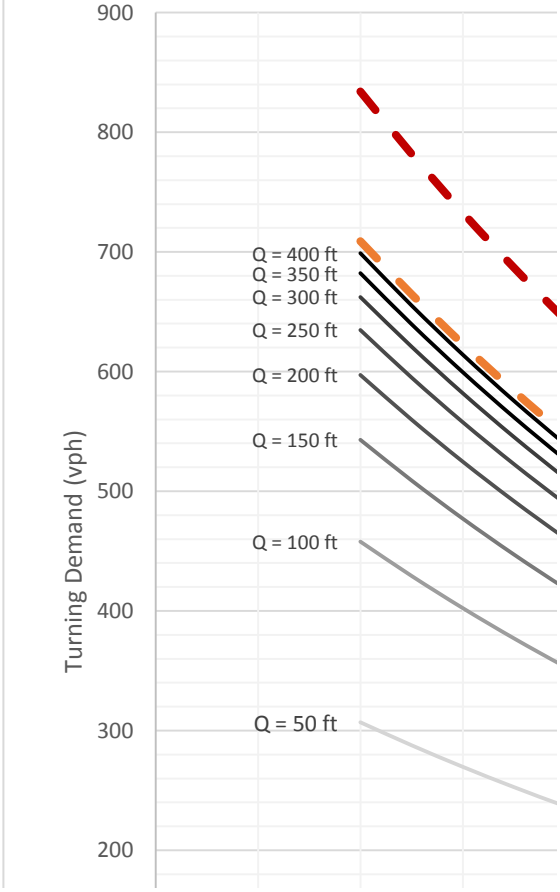

95% Q Length
50

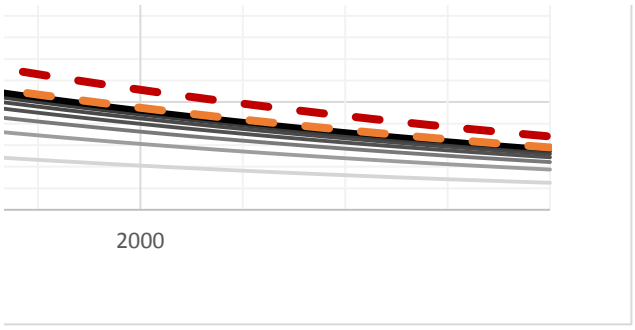

1000
900
800
700
Q = 400 ft
Q = 350 ft
Q = 300 ft

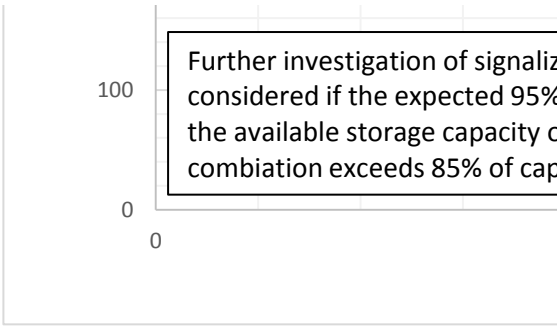

100
150
200
250
300
350
400
Capacity
85% Cap
2000


Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft
Turning Demand (vph)
600
500
400
300
200
100
0
0
Further investigation of signaliz
considered if the expected 95%
the available storage capacity c
combiation exceeds 85% of cap

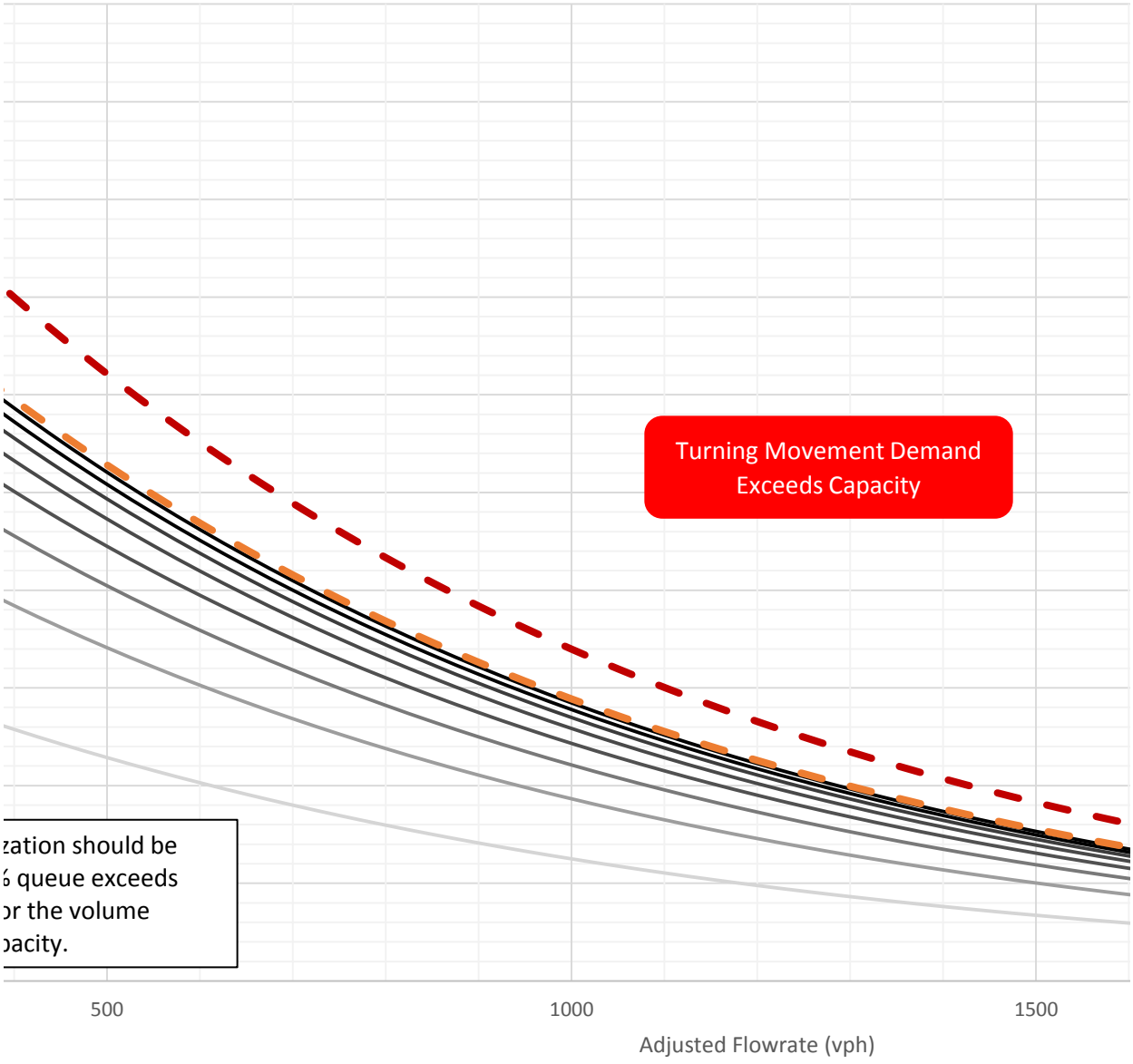

95% Q Length
50
100
150
200
250
300
350
400
Capacity
85% Cap


900
800
700
600
500
400
300
200
Turning Demand (vph)
Q = 400 ft
Q = 350 ft
Q = 300 ft
Q = 250 ft
Q = 200 ft
Q = 150 ft
Q = 100 ft
Q = 50 ft

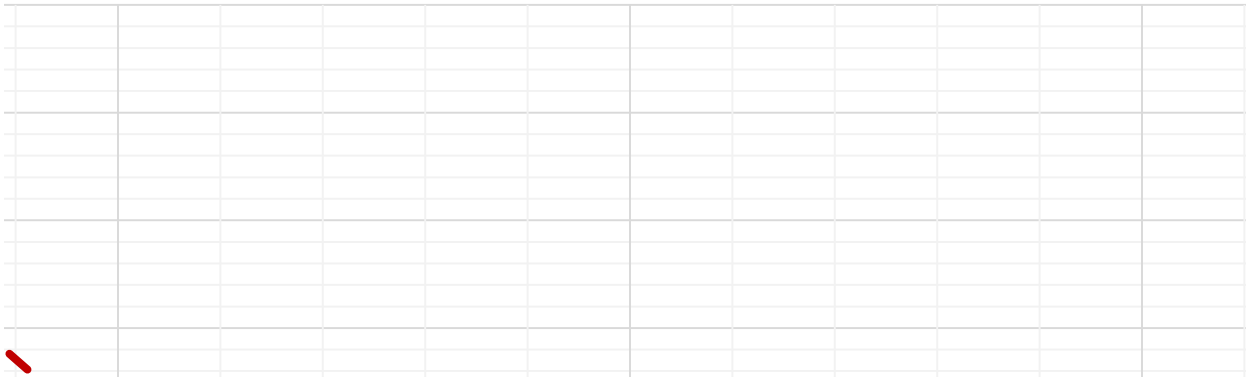

2000

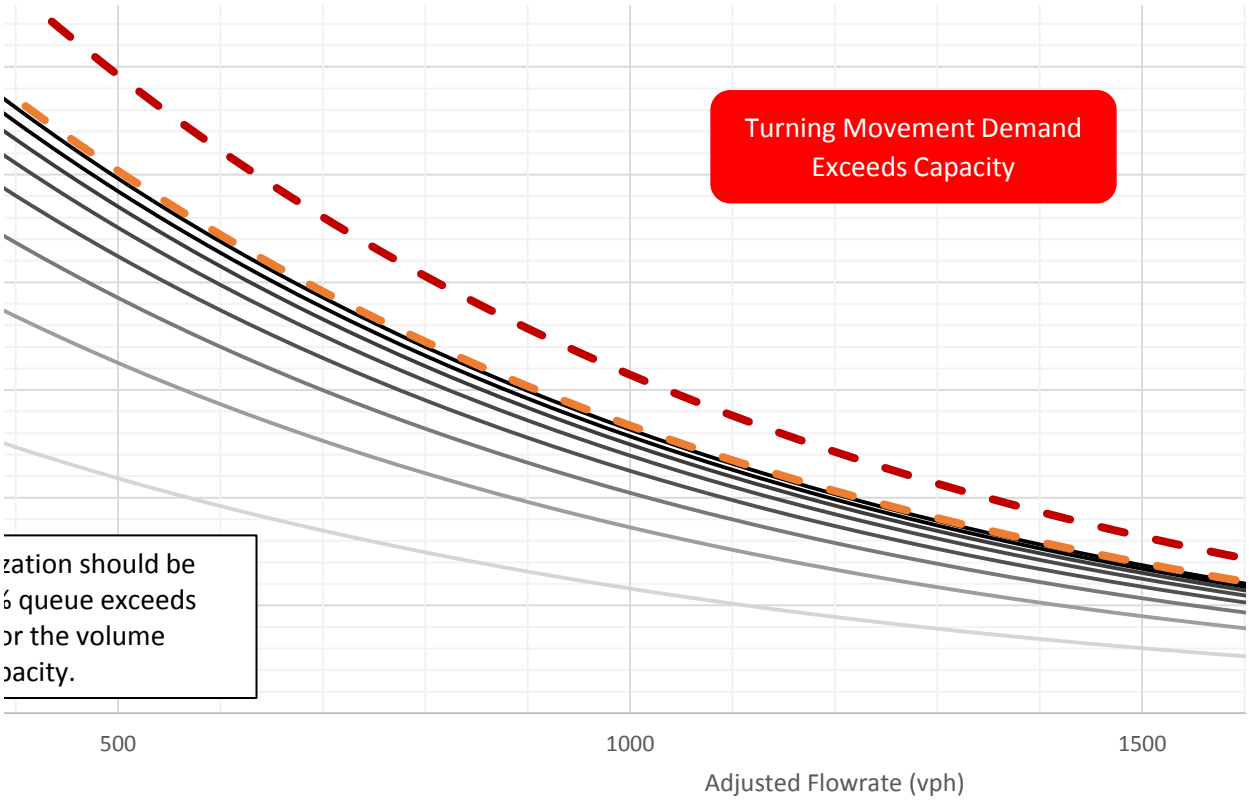

100
0
0
Further investigation of signaliz
considered if the expected 95%
the available storage capacity c
combiation exceeds 85% of cap

30% U Turn, 70% Left Turn - 95% Queue Length

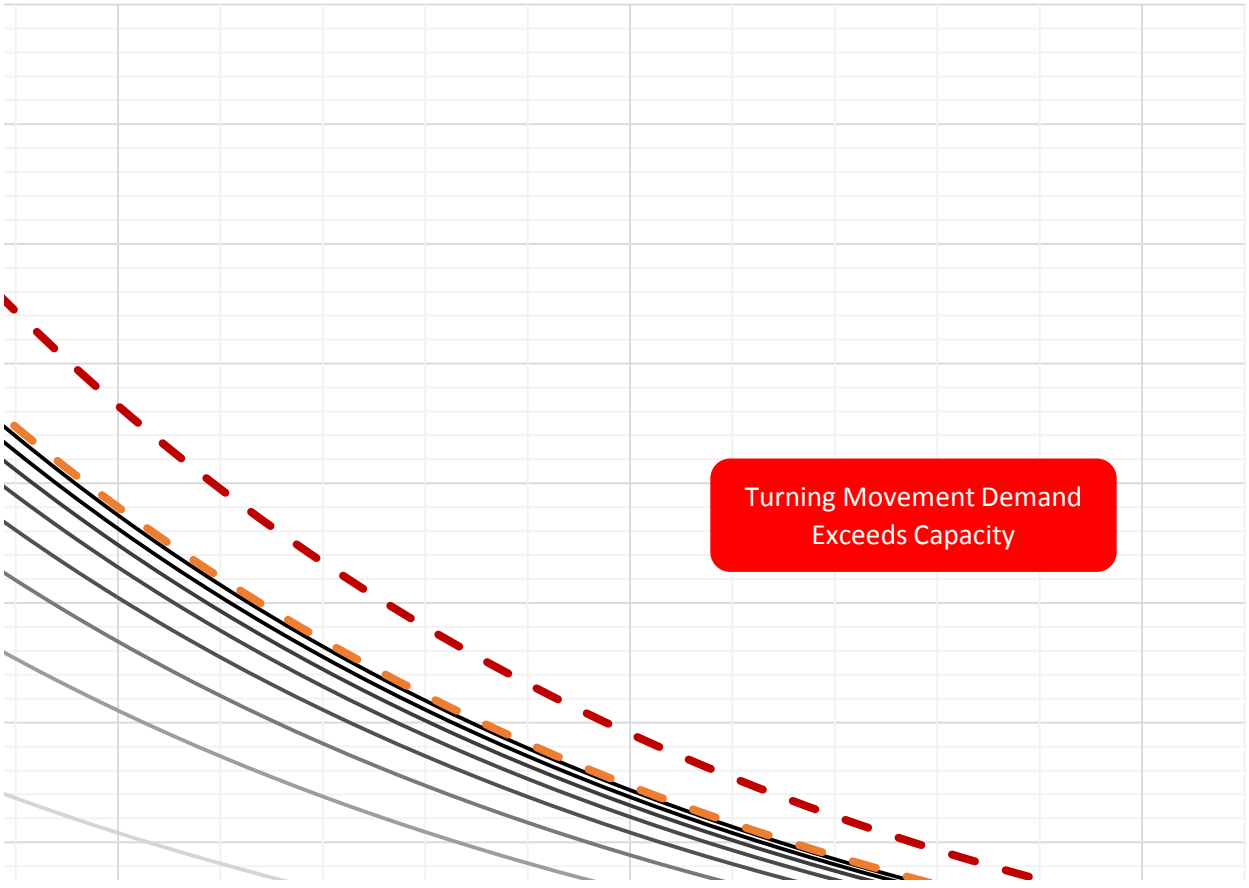


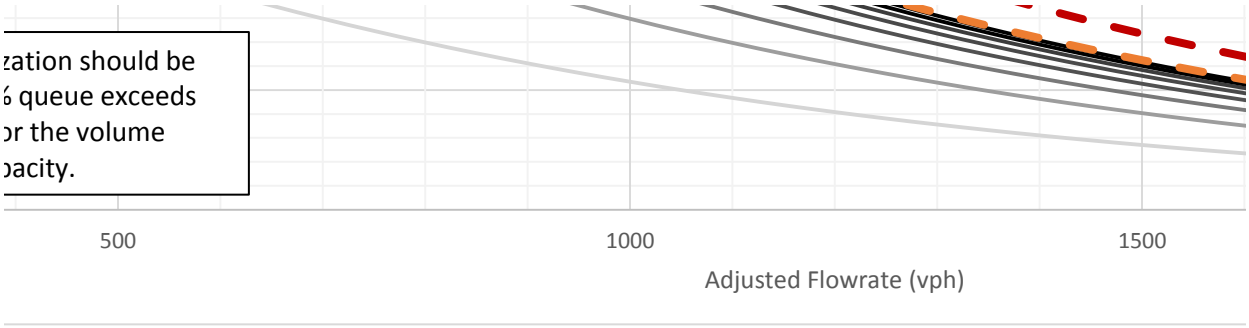
20% U Turn, 80% Left Turn - 95% Queue Length

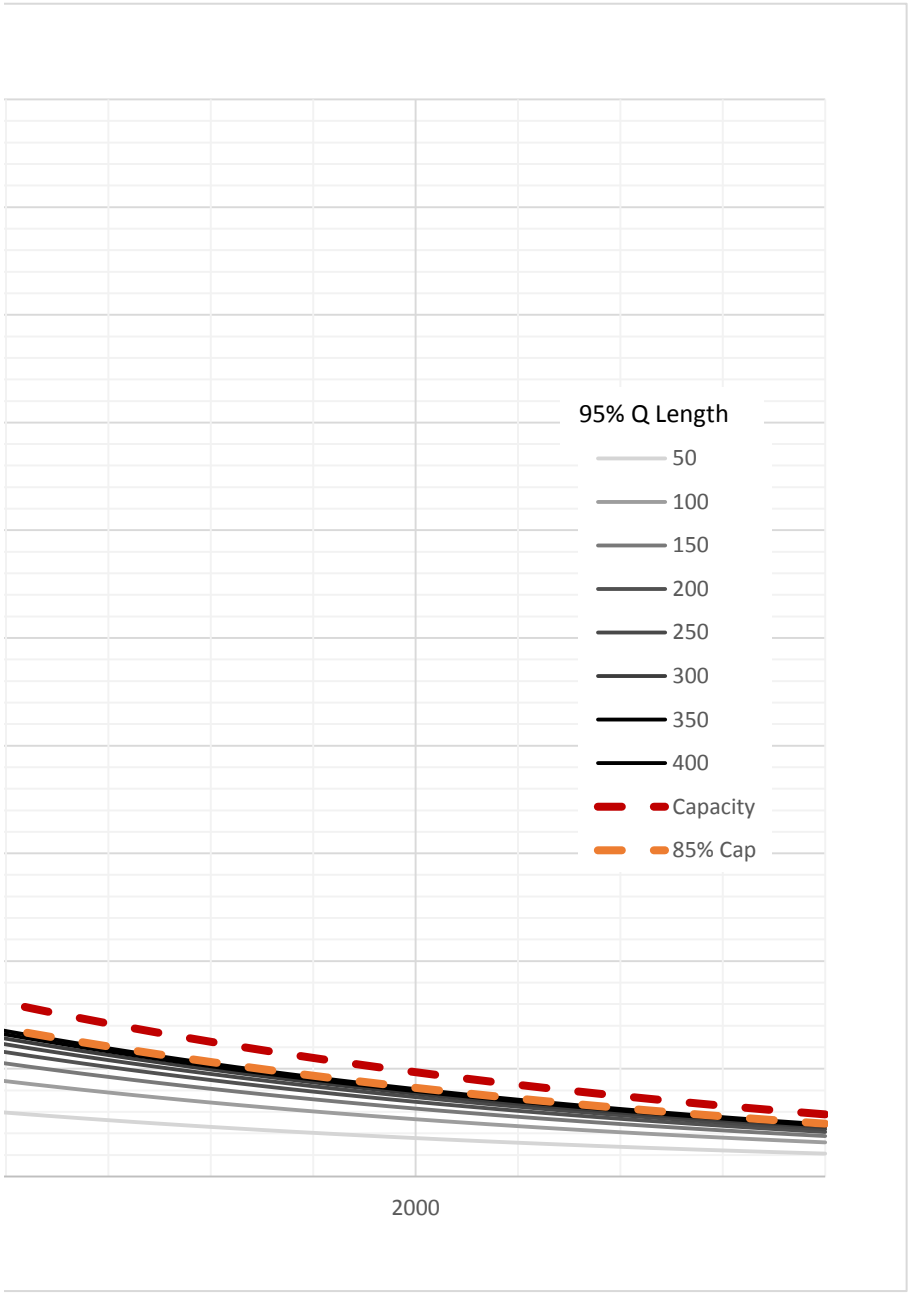


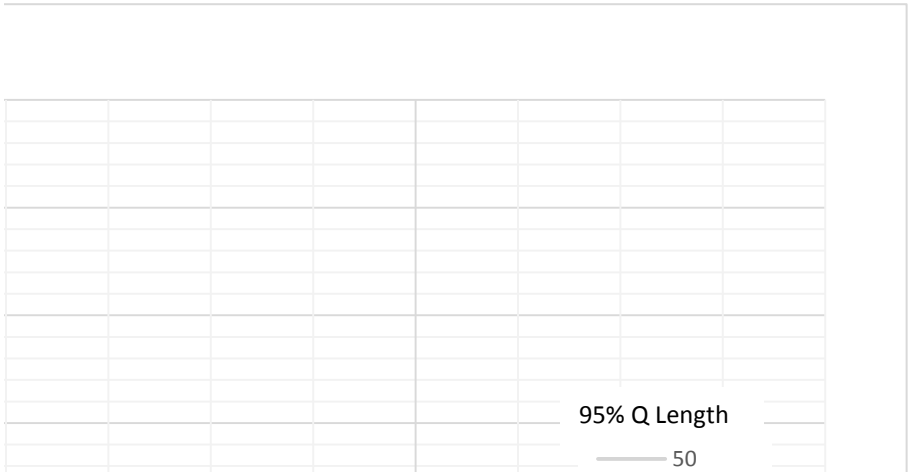


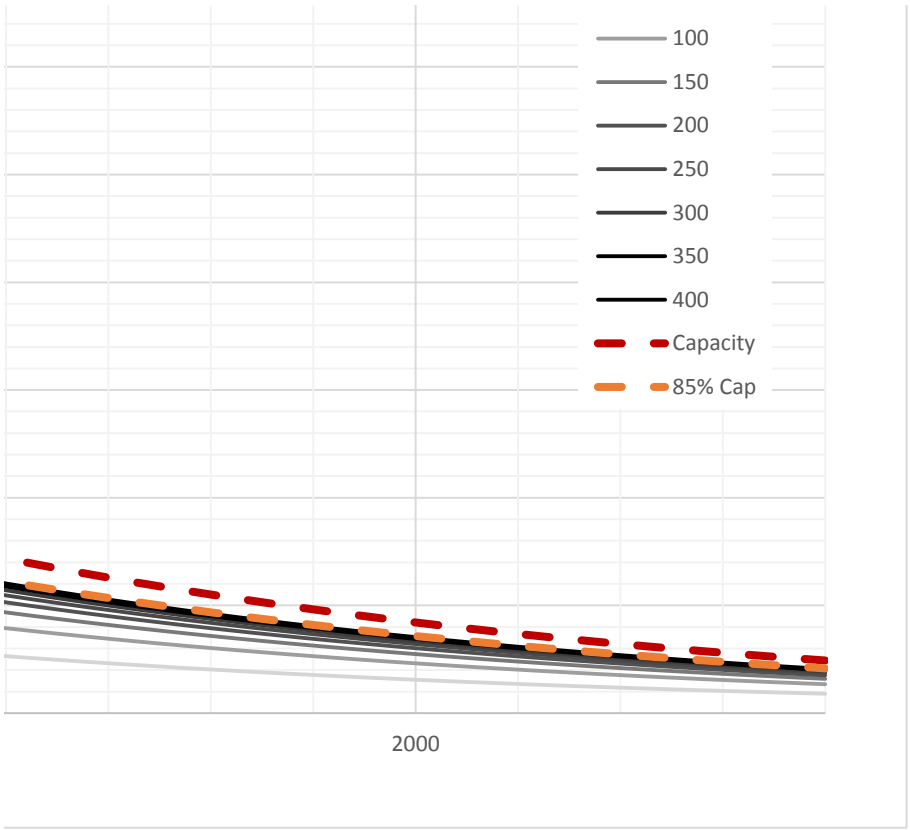
10% U Turn, 90% Left Turn - 95% Queue Length



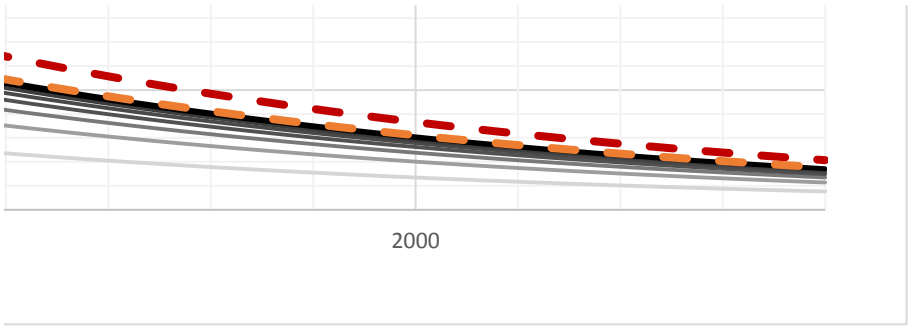

ization should be
% queue exceeds
or the volume
pacity.
500
1000
1500
Adjusted Flowrate (vph)


95% Q Length
50
100
150
200
250
300
350
400
Capacity
85% Cap
2000


95% Q Length
50


100
150
200
250
300
350
400
Capacity
85% Cap
2000

95% Q Length
50
100
150
200
250
300
350
400
Capacity
85% Cap


2000